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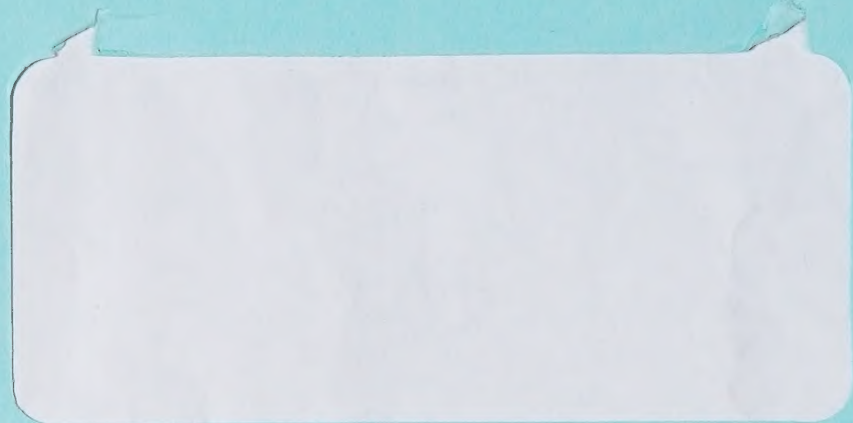


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Toronto Oxidant Study II
Ground-based Measurements
June - October, 1975

K.G. Anlauf, M.A. Lusi, H.A. Wiebe
Atmospheric Environment Service
Downsview, Ontario

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October 1976

Report ARQA-40-76

Atmospheric Chemistry, Criteria and Standards Division
Downsview, Ontario M3H 5T4
Canada

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Introductory Comments

During the period of June to October, 1975, measurements were made of ozone, nitric oxide and nitrogen oxides on Centre Island (about 2.9 km off-shore from Toronto), and near Maple (about 28.5 km north of Centre Island and about 9-10 km outside the northern edge of Metropolitan Toronto). Similar measurements were also made at Holland Marsh (54 km north of Centre Island) but only from mid-August to mid-October. Carbon monoxide and nephelometer (light scattering) measurements were made only on Centre Island. All three sites were chosen so that they would be virtually free of local pollution sources.

The exact location of the Centre Island site (see Figure 1) was the second floor of the Island Filtration laboratory, situated about 100 m from the south shore of the island. Sampling of ambient air was accomplished by means of a manifold which consisted of 2.54 cm dia. teflon tubing supported on a 12 m tower; a flow of air through the manifold by means of a 112 L min⁻¹ capacity pump was used to keep residence times small. The manifold tubing was terminated at the top by an inverted teflon-coated Funnel which supported a 10 cm dia. glass fibre filter. This removable filter trapped particulate matter in order to keep the manifold clean; removal of the filter was found to have no effect on the measured concentrations, although it did affect the residence time in the sampling line. We refer

the reader to report ARQA-27-75 for more complete details and photographs of this site.

The second air quality monitoring station was on the grounds of the Ontario Ministry of Natural Resources near Maple and the third station was in a farmer's field in Holland Marsh near Bradford (see Figure 1). At both of these sites, the air monitoring instrumentation was housed in a mobile laboratory (motor home) and the air sampling manifold was sufficiently similar not to deserve elaboration here. Report ARQA-19-75 contains details and photographs of this facility.

At all sites, 'Monitor Laboratories Chemiluminescent Ozone Analyzer' (Model 8410) was used for O_3 measurements and a 'Monitor Laboratories Chemiluminescent Nitrogen Oxides Analyzer' (Model 8440) was used for measurement of NO and NO_x ; the term NO_x refers to the sum of all ambient nitrogen compounds that are oxidized to NO by the Model 8440 molybdenum converter. Except under very unusual circumstances, the sum NO_x would refer to the sum of NO and NO_2 concentrations. In this way then, NO_2 concentrations can be obtained by subtraction of the NO from the NO_x channel. These instruments were calibrated weekly using the gas-phase titration technique based on the NO- O_3 reaction; for details see ARQA-41-76. Carbon monoxide concentrations were measured by a CARLE analytical gas chromatograph Model 211 with a flame ionization detector, using a nickel catalyst for conversion

of CO to CH₄; frequency of sampling was 15 minutes and the elution peaks were recorded on a strip chart recorder; details of this method can be found in ARQA-32-76. Light scattering measurements were made with a Model 1550 integrating nephelometer (METEOROLOGY RESEARCH INC.). For this measurement, ambient air was drawn into the instrument from a 10 cm dia. aluminium pipe (terminated by an inverted funnel at the top of the 12 m tower) by means of a 280 L min⁻¹ pump. The MRI Integrating Nephelometer is a continuous monitoring instrument which measures the scattering of light caused by suspended particulate matter in the air, and relates this measurement to visibility and the level of particulate concentration. The output from this instrument is termed as 'scattering coefficient' or b_{scat} for short. The units are meter⁻¹ since it is derived from the intensity ratio formula

$$\frac{I_0 - I}{I} = 1 - \exp(-b_{\text{scat}} * L)$$

Where $I_0 - I$ is a measure of the scattered intensity (visible spectrum), I_0 is the intensity incident on the particles and L is the effective path length. Hence, it can be seen that if b_{scat} is large, the local visual distance would be very small. Also, it is to be noted that nephelometer measurements refer to particles primarily in the size range of 0.1 to 1 micron; an approximate formula relating the mass concentration of particles to light scattering within the nephelometer is:

$$\text{Mass (g m}^{-3}\text{)} = 0.38 b_{\text{scat}}$$

At the Centre Island and Maple stations, the outputs of the O_3 , NO_x gas analyzers and the nephelometer were fed to data averagers set for 10 minute averages. These were recorded on teletype punched paper tape. Subsequently, the data abstraction and calibration corrections were completed at the AES headquarters. The Holland Marsh data was collected on strip chart recorders.

The following pages contain tables and some weekly plots of the measured hourly - averaged O_3 , NO , NO_x , NO_2 , CO and nephelometer measurements. The pollutant concentration units are parts per billion (abbreviated as ppb) or parts per hundred million (pphm). These units are volume to volume ratios and the word billion represents 10^9 . As already mentioned, we assume that the measured NO_x is the sum of $\text{NO} + \text{NO}_2$. Hence, the reported NO_2 values are simply the difference: $\text{NO}_x - \text{NO}$. The nephelometer data are reported as meter^{-1} with an appropriate scaling factor. The hour of day is always in eastern standard time (E.S.T.). In the following tables, asterisks denote missing data. Because of the increased frequency of calibration, the precision on the reported O_3 , NO and NO_x concentrations have improved over the previous 1974 study and are now estimated to be $\pm 10\%$. However, because of the relatively large zero drift of the instrumentation as a whole, concentrations below about 10 ppb have no significance. The reported CO concentrations are accurate to ± 5 pphm and are

not significant below 5 pphm. Finally, the nephelometer measurements are very accurate ($\sim 3-5\%$) but the measured ' b_{scat} ' gives only a semi-quantitative measure of particle concentrations or visibility.

ACKNOWLEDGEMENTS:

The authors gratefully acknowledge the very competent assistance of Mr. Kevin Speicher and Mr. Armand Gaudenzi for the installation, calibration and maintenance of instrumentation. Special thanks go to Dr. Sam Stevens of the Ontario Ministry of Environment for loaning Mr. Speicher to our branch, and to Mr. Dave Colwell for the loan of a mobile laboratory facility and expert advice on data communication information. We also thank Mr. Jim Case and Mr. Rob Gibson of AIDX at AES headquarters for computer assistance and Dr. M.S.A. Ahmed for assistance in data transfer. Finally, we appreciate the generosity of the Horlings family at Holland Marsh and the Ontario Ministry of Natural Resources at Maple for allowing our mobile laboratory on their premises.

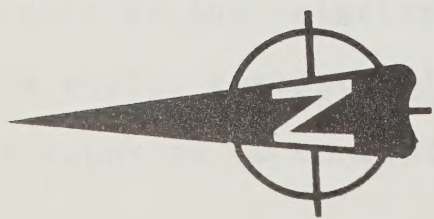
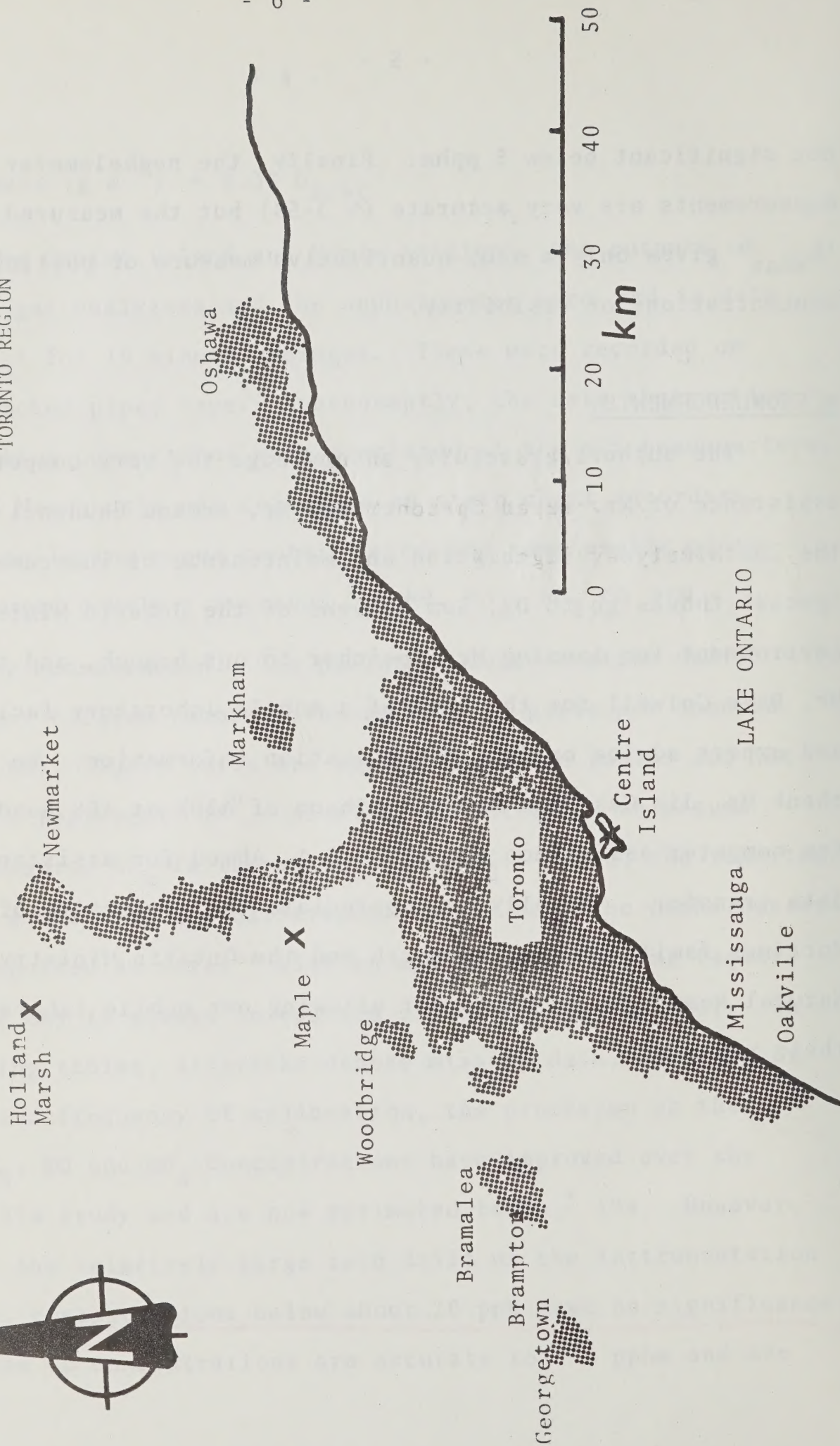


FIGURE 1
TORONTO REGION



APPENDIX A. AIR QUALITY DATA AT TORONTO CENTRE ISLAND
JUNE - OCTOBER 1975

(i)	Hourly-Averaged Ozone Concentrations.....	Page 8
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HOURLY-AVERAGED OZONE CONCENTRATION (PPB)

TORONTO ISLAND, JUNE 1975

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
4	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
5	38	49	45	45	49	53	51	47	43	45	67	85	99	109	115	111	87	65	67	65	51	43	35	32
6	32	34	27	27	13	9	23	32	34	38	43	42	42	36	45	43	45	47	45	42	43	40	40	32
7	9	7	11	9	13	16	13	9	13	27	31	32	32	27	27	25	29	31	23	18	14	14	13	11
8	9	7	7	9	7	9	9	13	22	23	27	31	36	36	40	43	47	61	47	23	16	11	2	5
9	9	11	16	14	16	7	7	14	24	25	25	34	40	43	43	47	47	49	49	47	49	47	49	47
10	45	40	2	0	0	2	5	33	54	56	55	53	54	58	60	63	63	62	62	62	63	67	67	64
11	59	50	43	41	34	34	35	41	43	43	48	63	75	90	90	95	99	101	92	93	68	48	44	42
12	39	37	33	29	29	28	31	33	28	33	46	66	80	77	77	79	80	72	73	70	71	67	60	61
13	57	52	52	51	50	47	47	37	39	40	43	39	40	44	32	52	55	57	59	54	50	56	51	52
14	57	56	66	63	53	48	43	45	51	57	67	72	73	85	100	107	106	105	101	107	113	103	106	101
15	90	80	62	47	50	51	47	44	47	57	67	69	71	84	98	106	108	112	102	66	55	60	68	55
16	58	56	58	58	39	35	36	35	36	37	***	***	***	75	71	67	74	72	71	70	67	59	51	48
17	55	54	51	49	48	45	34	34	39	***	***	63	73	76	84	96	97	98	101	97	94	90	76	70
18	58	60	48	40	37	34	36	34	39	49	64	79	79	64	73	69	69	66	63	55	46	49	67	26
19	17	38	44	35	31	29	29	30	38	38	40	55	61	58	55	52	52	50	44	31	23	10	0	0
20	7	3	1	6	15	11	4	10	19	24	38	45	36	36	37	38	37	36	36	37	35	37	38	31
21	20	10	13	4	0	3	13	20	24	29	36	49	59	66	75	92	94	95	90	99	84	75	68	66
22	30	0	0	0	0	0	15	35	44	49	56	78	111	139	143	138	146	145	139	121	96	93	102	92
23	76	74	72	67	60	55	50	45	45	54	***	***	***	110	114	110	99	95	93	80	64	52	52	42
24	26	31	21	21	24	28	13	4	9	30	45	66	90	116	129	85	42	32	26	21	13	14	5	8
25	5	2	2	3	5	5	14	28	29	38	44	49	48	51	51	55	54	55	54	53	54	53	21	1
26	1	0	0	1	4	20	32	34	44	53	65	72	***	***	***	80	89	94	97	100	96	82	76	73
27	60	49	34	28	23	30	37	31	44	52	62	68	75	93	116	124	124	99	97	92	91	90	77	77
28	76	53	20	0	0	6	22	46	80	94	99	98	87	96	103	108	111	111	111	109	104	103	98	96
29	98	89	55	43	44	34	31	43	43	52	61	54	53	51	53	57	69	70	65	59	64	39	18	29
30	30	28	39	33	16	14	29	47	55	62	66	71	82	87	96	97	95	95	89	89	87	79	73	15
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

HOURLY-AVERAGED OZONE CONCENTRATION (PPE)

TORONTO ISLAND, JULY 1975

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	0	0	0	0	1	7	8	50	69	65	83	97	106	110	102	101	106	107	108	98	103	90	78	12
2	25	13	1	4	19	10	9	5	28	85	85	***	***	165	169	88	71	83	94	87	94	90	88	86
3	83	68	57	62	58	47	46	22	32	51	84	89	106	87	85	80	69	63	59	59	40	6	14	1
4	1	15	21	22	19	15	14	9	27	50	60	69	75	60	60	63	104	144	126	22	5	1	1	2
5	1	5	4	3	13	17	15	20	34	58	90	118	119	118	116	112	97	71	61	54	41	28	26	
6	5	1	0	1	1	2	11	41	70	73	93	108	93	129	132	110	104	114	135	110	85	75	63	62
7	50	38	33	34	29	6	35	42	58	103	123	122	124	135	148	160	190	186	199	189	163	161	149	
8	134	28	3	11	27	30	18	39	83	92	137	164	139	140	144	131	138	137	65	40	19	42	24	30
9	30	28	27	30	29	20	12	14	17	32	54	77	50	71	88	90	54	50	51	48	35	33	45	40
10	36	34	35	37	35	34	23	21	38	***	***	***	58	68	79	81	82	89	82	81	54	6	5	14
11	17	22	21	24	15	9	7	12	20	17	21	32	31	38	49	48	58	63	60	54	47	40	17	0
12	0	0	0	0	0	0	5	11	24	37	53	80	82	86	88	83	83	82	82	82	98	93	59	54
13	0	35	31	17	44	51	48	51	59	67	78	89	117	123	109	112	110	109	105	99	74	64	61	56
14	66	65	64	67	65	55	51	54	61	42	61	78	96	103	105	108	105	109	113	106	105	106	90	74
15	48	39	37	35	36	32	35	45	33	76	109	140	150	169	195	187	170	171	159	140	115	96	92	81
16	77	50	36	22	17	19	30	40	57	40	82	111	142	157	159	162	176	132	115	112	104	79	67	63
17	64	46	51	50	44	53	59	73	80	82	111	142	152	157	159	162	176	132	115	112	104	79	67	63
18	57	58	61	62	46	42	51	76	90	100	115	127	132	134	128	126	117	129	132	127	125	124	116	105
19	97	88	68	72	58	55	53	51	52	58	52	60	58	87	95	103	98	95	90	90	79	55	43	43
20	45	38	36	35	37	37	37	31	29	30	33	60	52	44	53	59	60	62	65	63	54	34	12	6
21	28	33	45	41	35	37	37	39	42	***	***	52	66	65	66	66	58	43	35	25	24	18	7	2
22	2	4	5	4	3	2	7	14	20	22	31	42	63	73	103	105	93	77	64	66	62	48	45	42
23	37	39	54	51	46	15	9	20	37	47	61	79	98	107	116	104	102	106	107	113	100	101	97	85
24	67	49	54	71	45	45	61	92	92	91	***	96	100	82	77	84	84	85	83	70	56	56	38	32
25	29	32	28	22	20	18	21	21	29	34	39	37	37	37	37	37	39	34	34	33	25	15	5	5
26	2	0	0	2	0	3	8	14	20	26	29	45	47	52	55	63	68	68	57	56	56	51	37	28
27	25	25	21	25	28	36	37	34	35	38	44	56	78	94	94	98	100	87	74	36	11	6	6	1
28	1	9	16	17	17	18	13	17	25	***	***	***	36	37	39	37	38	34	28	17	10	4	1	0
29	0	1	1	2	0	2	10	11	15	28	35	48	54	44	56	63	54	53	51	49	46	40	35	19
30	5	1	1	1	4	9	17	22	28	32	41	62	81	97	113	109	91	79	76	75	67	46	36	28
31	19	7	9	8	16	28	30	31	34	44	75	115	136	181	219	229	214	224	156	145	126	99	49	88

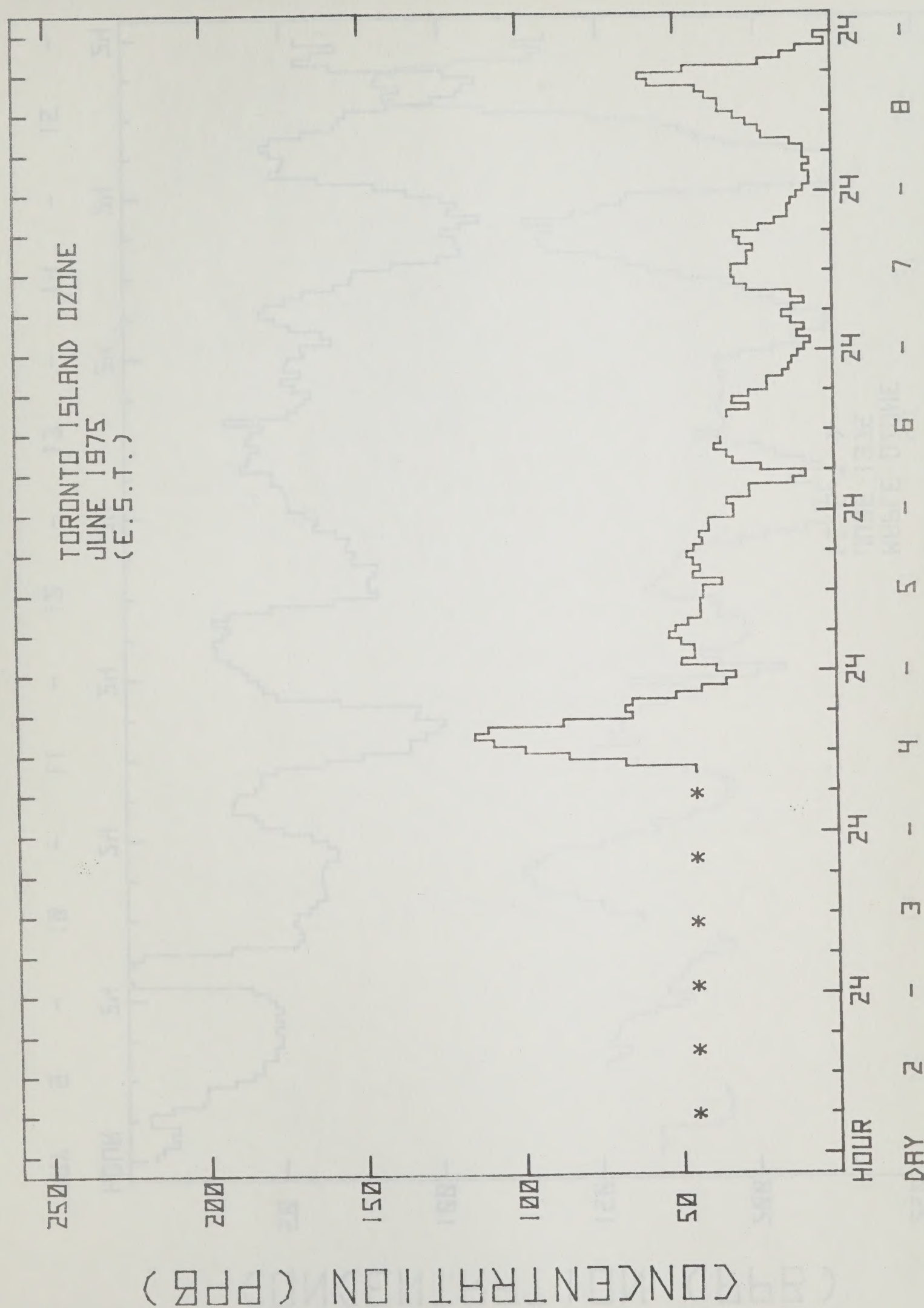
HOURLY-AVERAGED OZONE CONCENTRATION (PPB)

TORONTO ISLAND , AUGUST 1975

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY	98	57	61	85	12	4	27	43	47	56	104	116	161	157	179	181	174	172	165	142	147	131	86	29	
1	11	4	6	15	5	10	33	35	57	79	103	137	136	172	180	201	204	169	170	134	148	135	109	71	
2	16	9	61	68	73	80	88	92	72	89	93	93	96	96	104	109	107	106	102	99	92	90	87	56	
3	37	31	1	0	5	23	37	42	45	45	55	66	73	72	**	90	87	79	69	50	18	1	0	1	
4	0	3	14	22	15	20	11	11	15	23	31	41	44	78	104	95	42	33	25	14	12	8	17	15	
5	16	17	16	27	26	9	4	**	**	**	**	**	34	37	41	40	40	39	38	37	37	36	35	14	
6	0	3	6	6	12	8	8	5	8	**	**	40	**	50	50	45	51	50	49	39	41	13	0	0	
7	0	0	0	2	0	0	8	3	8	24	40	65	91	71	63	82	96	99	122	98	40	39	32	50	
8	0	0	0	49	47	56	53	55	60	58	81	104	118	125	126	125	125	125	122	117	116	109	113	114	
9	47	47	52	49	47	56	54	47	57	73	88	98	105	124	112	119	119	108	93	86	87	88	61	63	
10	100	83	80	77	70	67	54	47	57	73	88	98	105	124	112	119	119	108	93	86	87	88	61	63	
11	78	78	72	57	61	62	64	66	64	52	55	58	63	99	117	121	103	88	91	85	80	71	30	12	
12	11	0	11	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
13	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
14	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
15	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
16	26	7	0	13	30	33	26	25	36	40	52	68	85	97	94	101	106	101	103	103	109	109	106	105	
17	108	89	80	82	42	3	27	43	73	66	54	77	105	115	108	123	111	87	77	58	35	39	33	30	
18	28	23	25	22	19	17	9	9	18	24	30	34	39	39	41	41	40	40	36	23	19	13	5	7	
19	9	7	2	2	1	1	1	2	8	28	34	38	41	42	42	43	30	28	28	19	15	7	1	1	
20	1	3	7	12	7	2	3	7	17	25	32	55	65	41	47	48	54	62	50	37	19	1	0	0	
21	0	0	0	0	0	0	0	3	7	**	**	4	17	51	53	64	61	52	45	47	35	38	35	31	
22	29	27	20	25	39	33	15	21	31	30	33	37	36	36	36	44	45	48	47	43	41	26	0	0	
23	0	0	0	0	0	0	9	18	21	27	34	38	43	53	61	69	71	69	62	46	42	40	35	33	
24	36	3	1	9	9	5	7	10	14	12	26	33	31	37	45	49	43	47	50	50	47	38	30	7	
25	8	26	36	36	39	39	36	37	41	52	70	82	84	76	80	78	80	49	66	65	61	61	53	54	
26	49	36	38	41	38	44	48	38	**	**	45	54	64	37	18	10	13	26	32	34	10	0	0	1	
27	5	20	19	13	10	3	4	13	23	34	37	38	39	40	45	40	41	37	33	14	0	0	0	0	
28	0	0	0	0	0	0	0	3	14	36	55	70	85	89	77	92	94	94	90	87	83	80	73	66	
29	58	48	43	48	48	37	35	41	43	48	44	40	43	49	50	47	50	55	50	14	9	25	31	52	
30	38	32	39	39	42	48	43	43	47	42	41	44	42	48	55	60	62	59	56	52	52	53	51	37	
31	28	46	40	39	35	32	35	35	38	39	43	45	47	49	49	49	50	51	46	38	33	34	36	35	

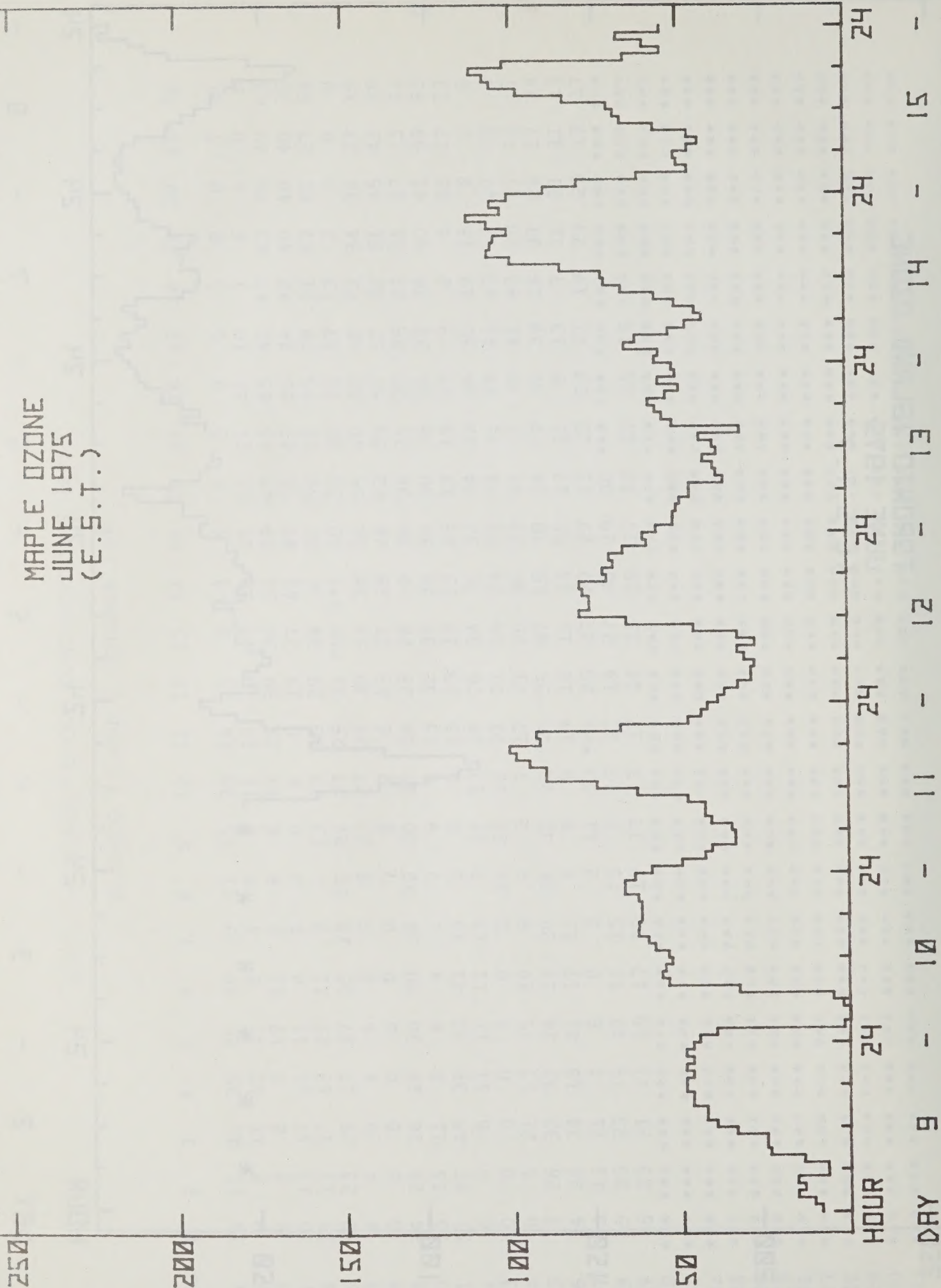
TORONTO ISLAND, SEPTEMBER 1975

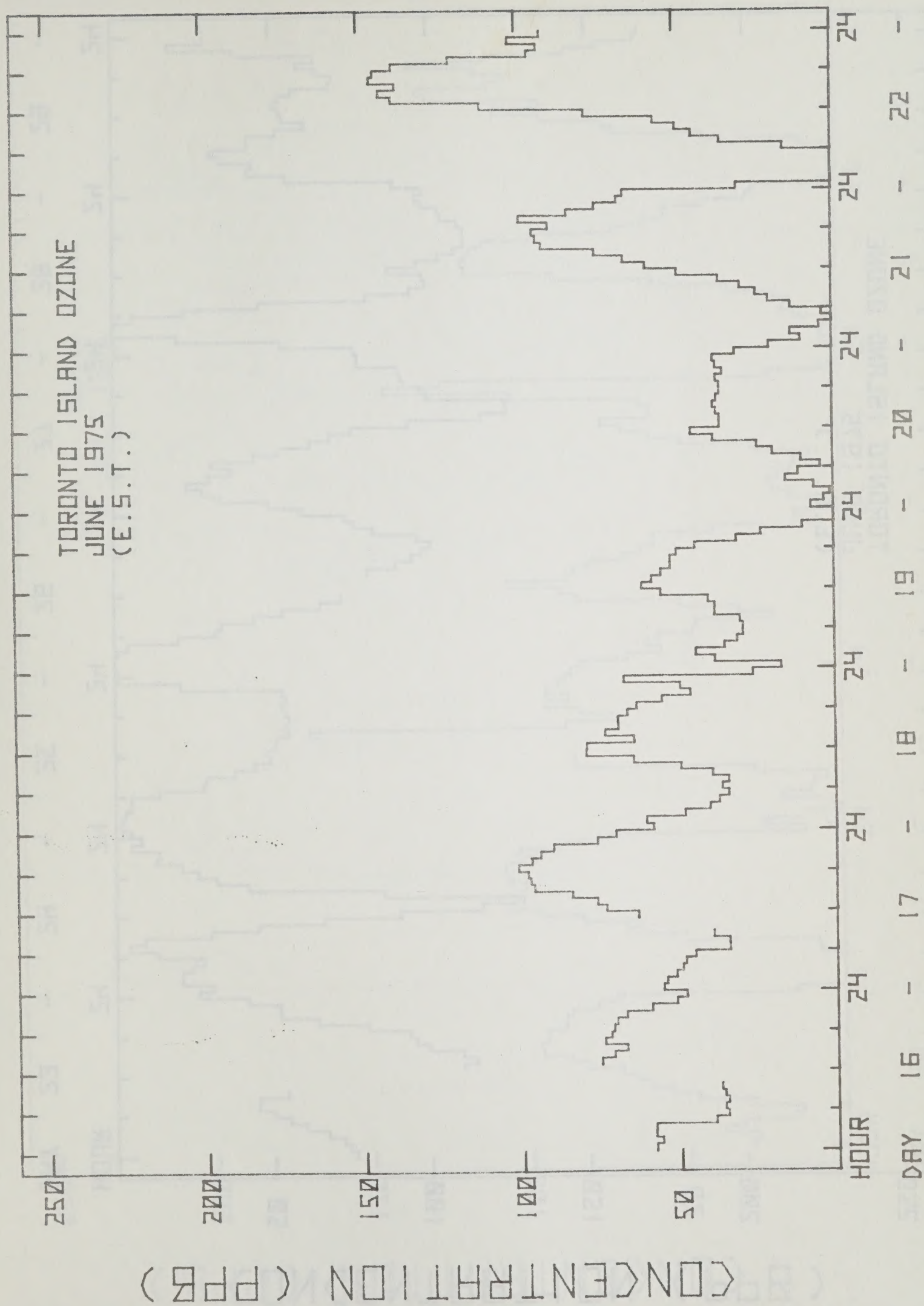
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	32	32	27	29	32	35	36	35	32	35	34	34	34	34	35	36	40	41	42	42	36	38	35	24
2	22	21	18	29	31	28	25	21	20	36	42	42	36	27	24	27	25	20	15	9	5	2	0	0
3	0	0	0	0	0	0	1	5	10	20	**	**	41	38	46	44	47	38	34	31	16	2	12	
4	0	0	0	0	7	0	1	5	25	29	29	34	30	38	39	39	37	33	17	9	6	0	0	
5	7	1	5	8	10	5	2	2	6	21	33	37	65	47	46	47	39	4	0	0	0	20	27	
6	27	32	39	39	30	0	5	17	30	41	43	44	44	42	41	40	38	34	30	14	11	8	12	
7	11	14	10	16	21	18	20	26	29	31	32	33	34	36	39	48	56	50	44	44	43	34	34	
8	34	48	64	66	58	45	36	35	33	36	38	42	43	35	35	34	29	29	17	12	19	13	11	
9	16	19	18	13	10	4	2	4	16	26	29	29	30	35	36	34	36	33	22	7	0	0	0	
10	0	0	0	0	0	0	35	1	3	14	**	**	60	61	68	55	60	64	62	64	53	44	39	
11	44	49	41	23	1	30	0	32	35	38	**	**	28	25	20	22	20	9	1	7	3	5	8	
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14	2	0	0	0	0	0	0	1	12	23	13	16	**	40	48	49	51	48	40	39	25	25	33	
15	0	0	0	0	0	0	***	***	***	***	***	***	***	54	75	84	93	97	101	99	92	94	84	
16	**	**	**	**	**	**	0	4	6	12	28	27	54	**	39	53	52	44	39	38	36	33	31	
17	19	11	65	60	48	38	34	34	36	35	41	40	35	**	67	81	86	44	39	38	36	33	31	
18	64	66	30	24	25	22	13	8	12	10	14	30	37	50	67	81	86	67	50	59	64	59	45	
19	31	32	23	24	23	24	21	26	12	21	28	23	35	45	45	59	61	61	42	35	45	42	40	
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21	30	28	28	17	16	12	9	9	3	7	10	17	**	24	16	21	17	14	2	3	0	2	2	
22	10	12	12	9	3	5	2	0	0	18	23	28	33	42	53	56	70	65	58	7	0	5	9	
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26	18	18	7	7	11	11	9	0	0	0	**	**	**	9	4	12	14	7	4	2	0	0	0	
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28	0	0	0	0	7	0	7	4	7	14	18	27	34	34	40	52	52	54	52	54	56	47	62	
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30	46	40	40	31	27	48	49	35	33	40	38	42	**	**	62	64	64	64	71	66	57	44	**	
31	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	



CONCENTRATION (PPB)

MAPLE OZONE
JUNE 1975
(E.S.T.)





TORONTO ISLAND OZONE
JUNE 1975
(E.S.T.)

CONCENTRATION (PPB)

HOUR

DAY

23

24

25

26

27

28

29

24

24

24

24

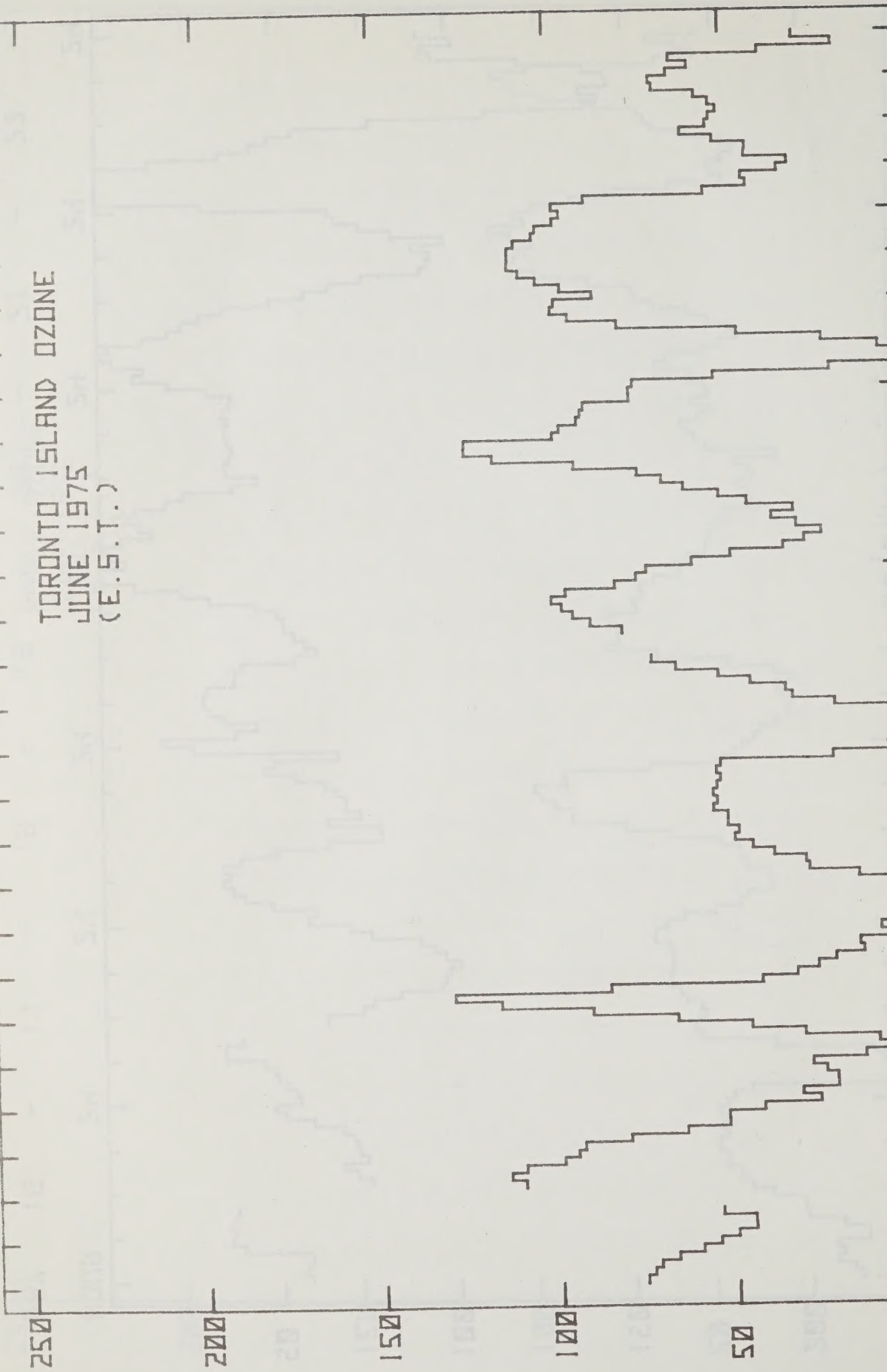
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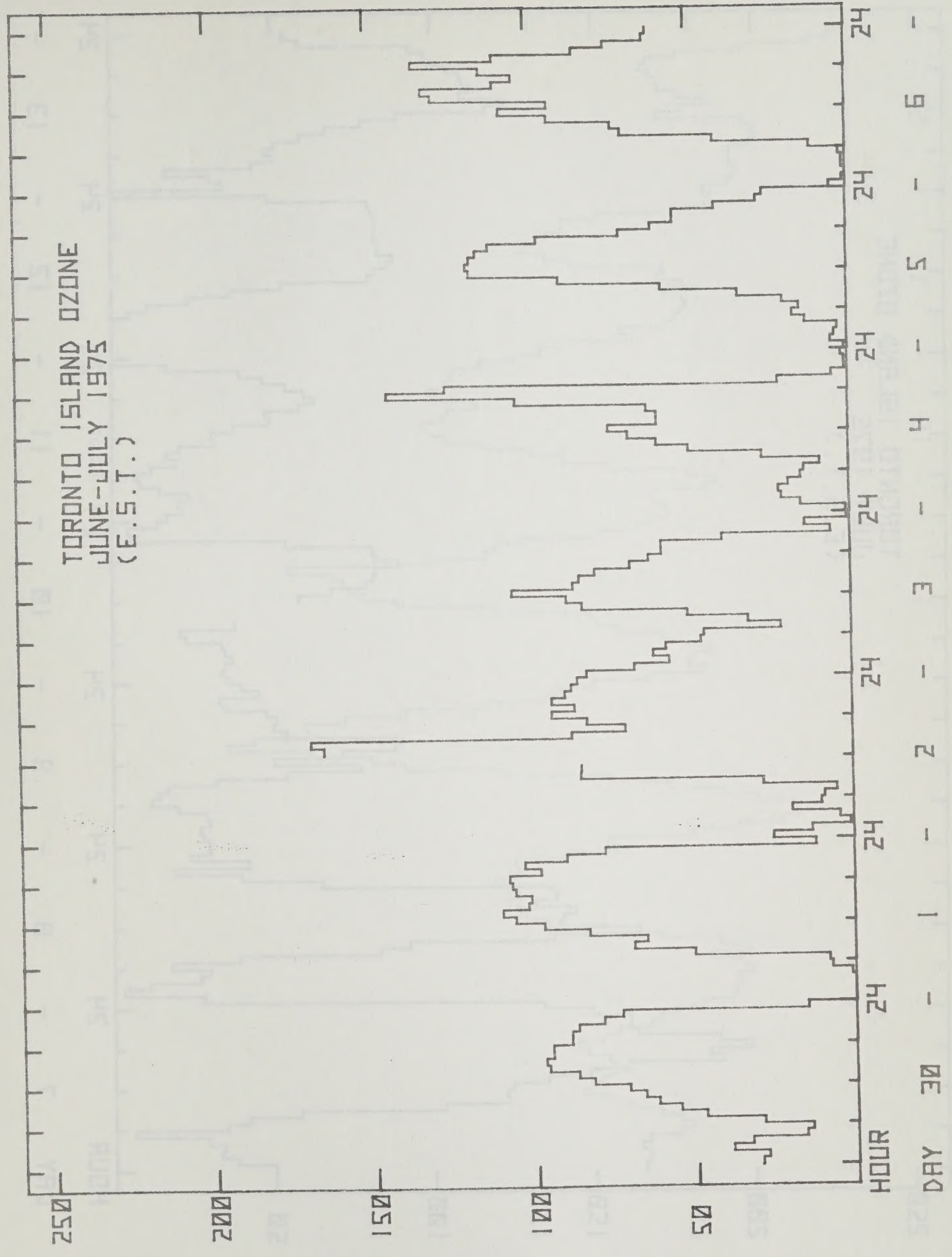
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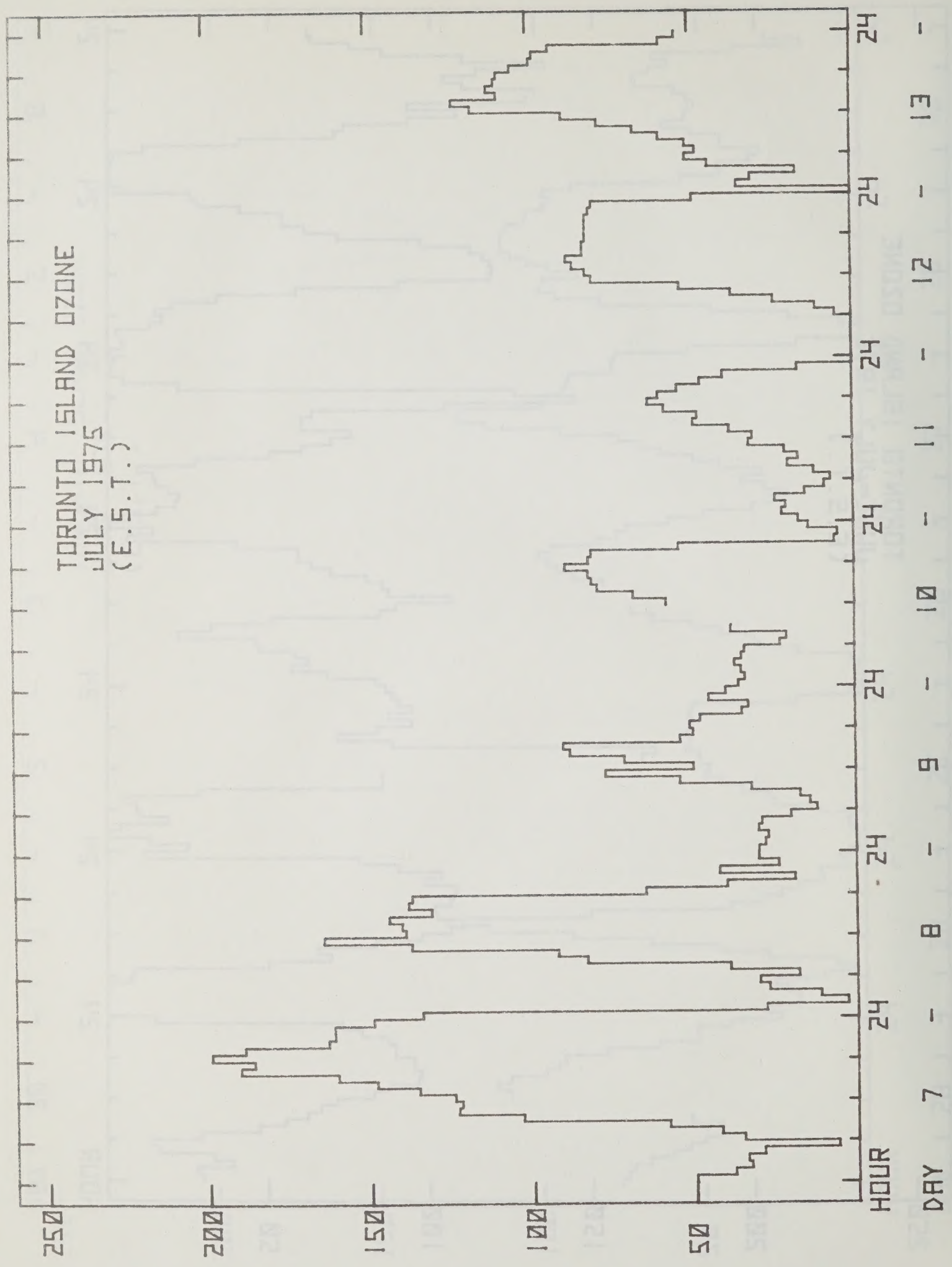
TORONTO ISLAND OZONE
JUNE-JULY 1975
(E.S.T.)

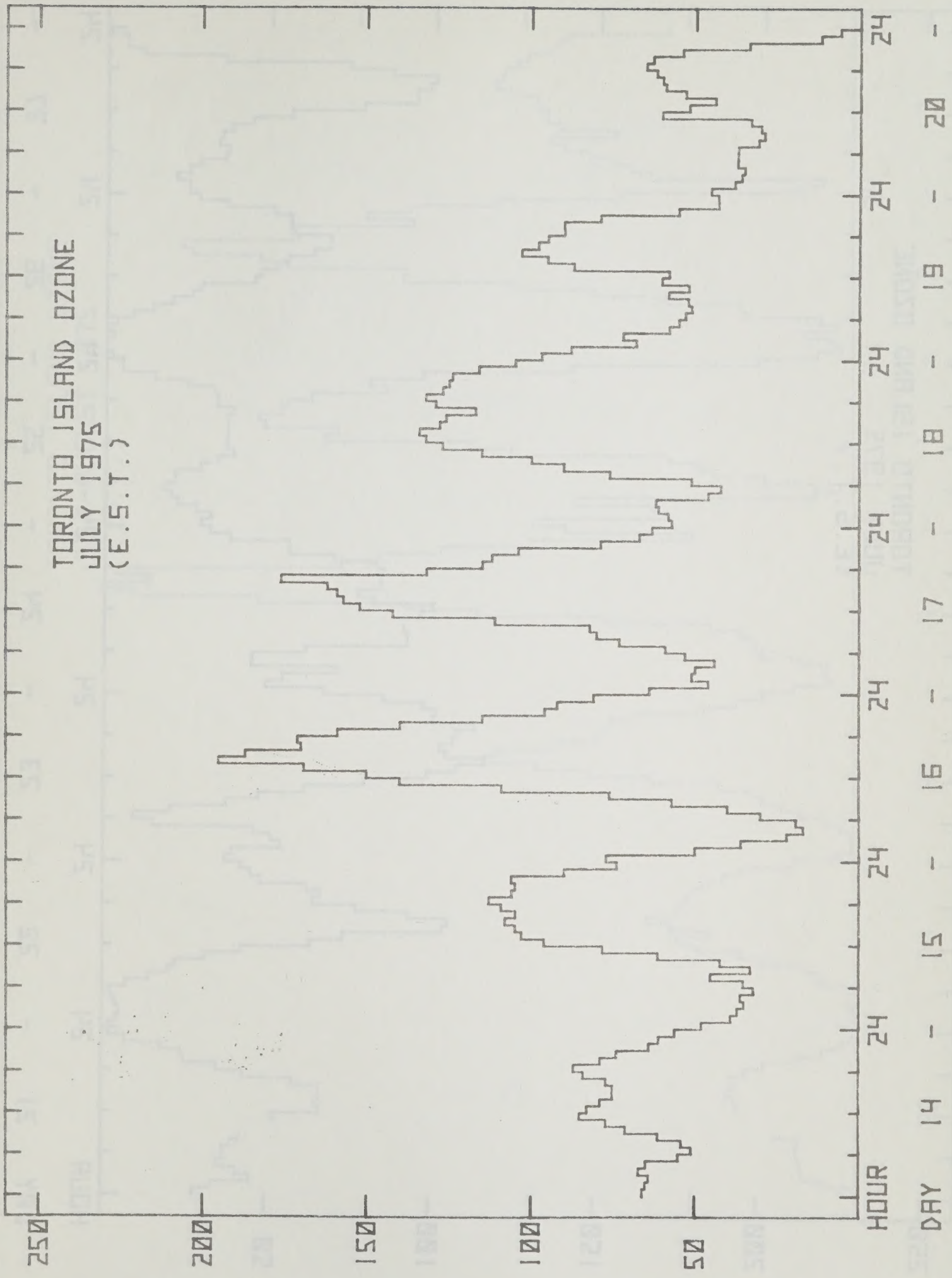
CONCENTRATION (PPB)



CONCENTRATION (PPB)

TORONTO ISLAND OZONE
JULY 1975
(E.S.T.)



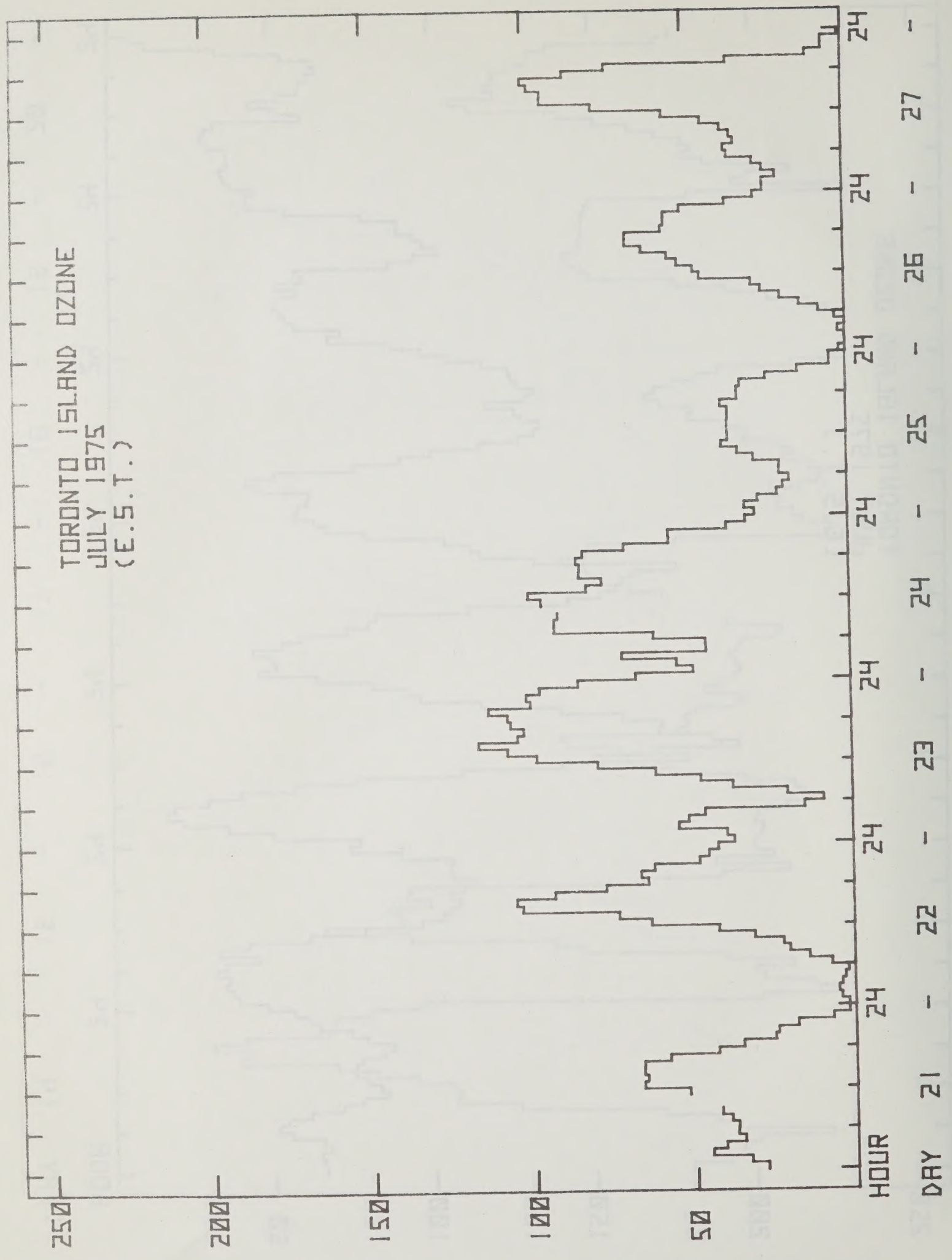


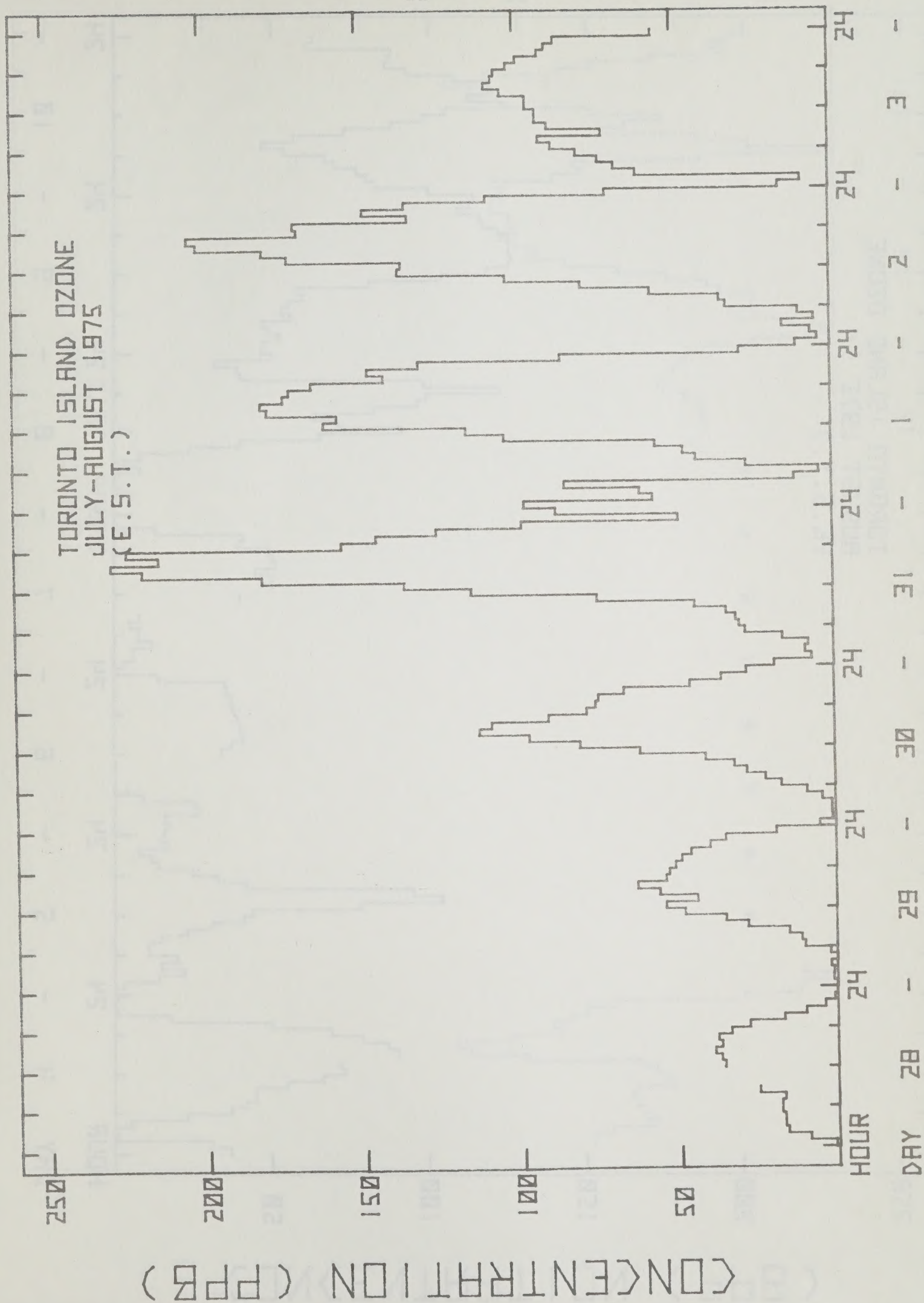
TORONTO ISLAND OZONE
JULY 1975
(E.S.T.)

CONCENTRATION (PPB)

CONCENTRATION (PPB)

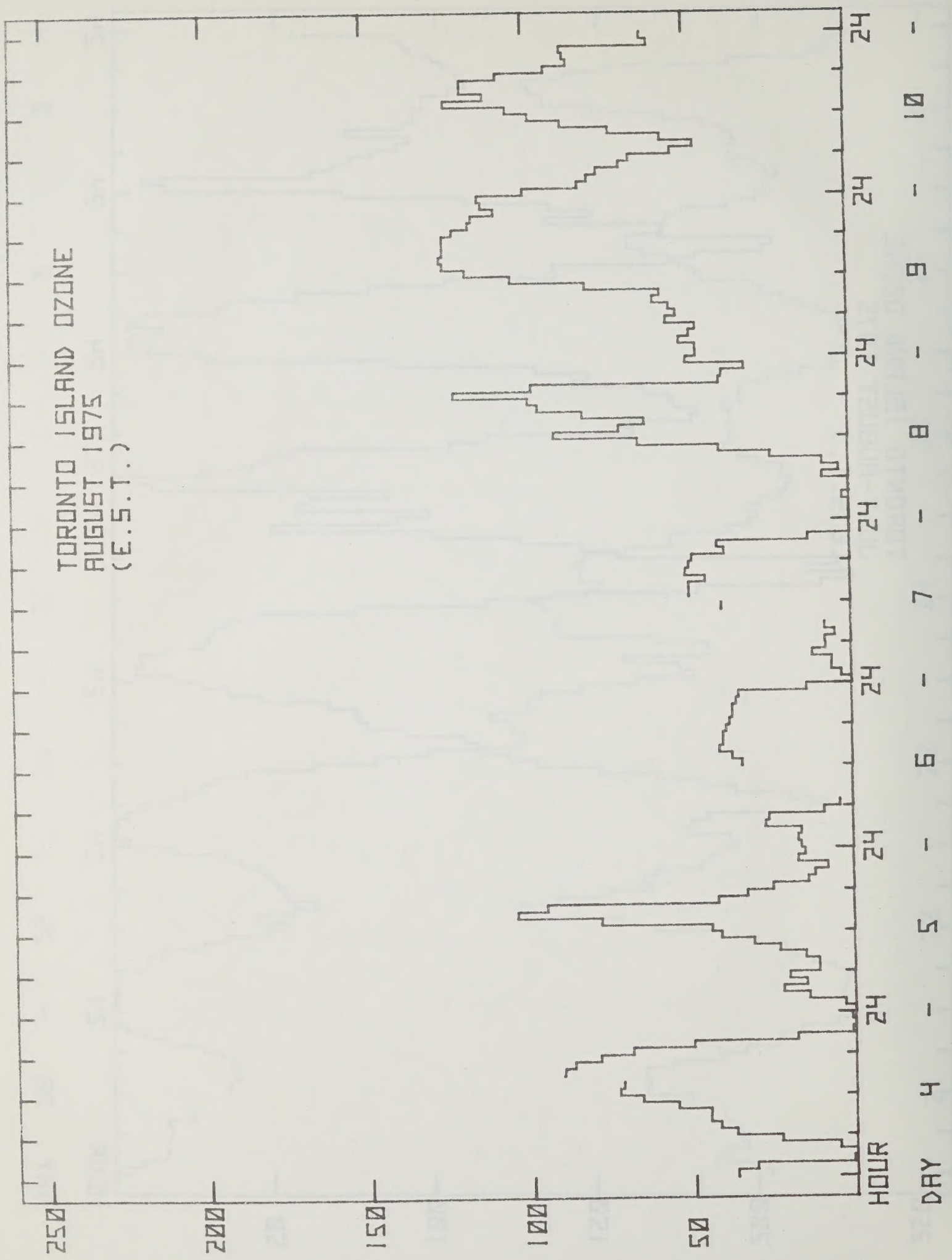
TORONTO ISLAND OZONE
JULY 1975
(E.S.T.)





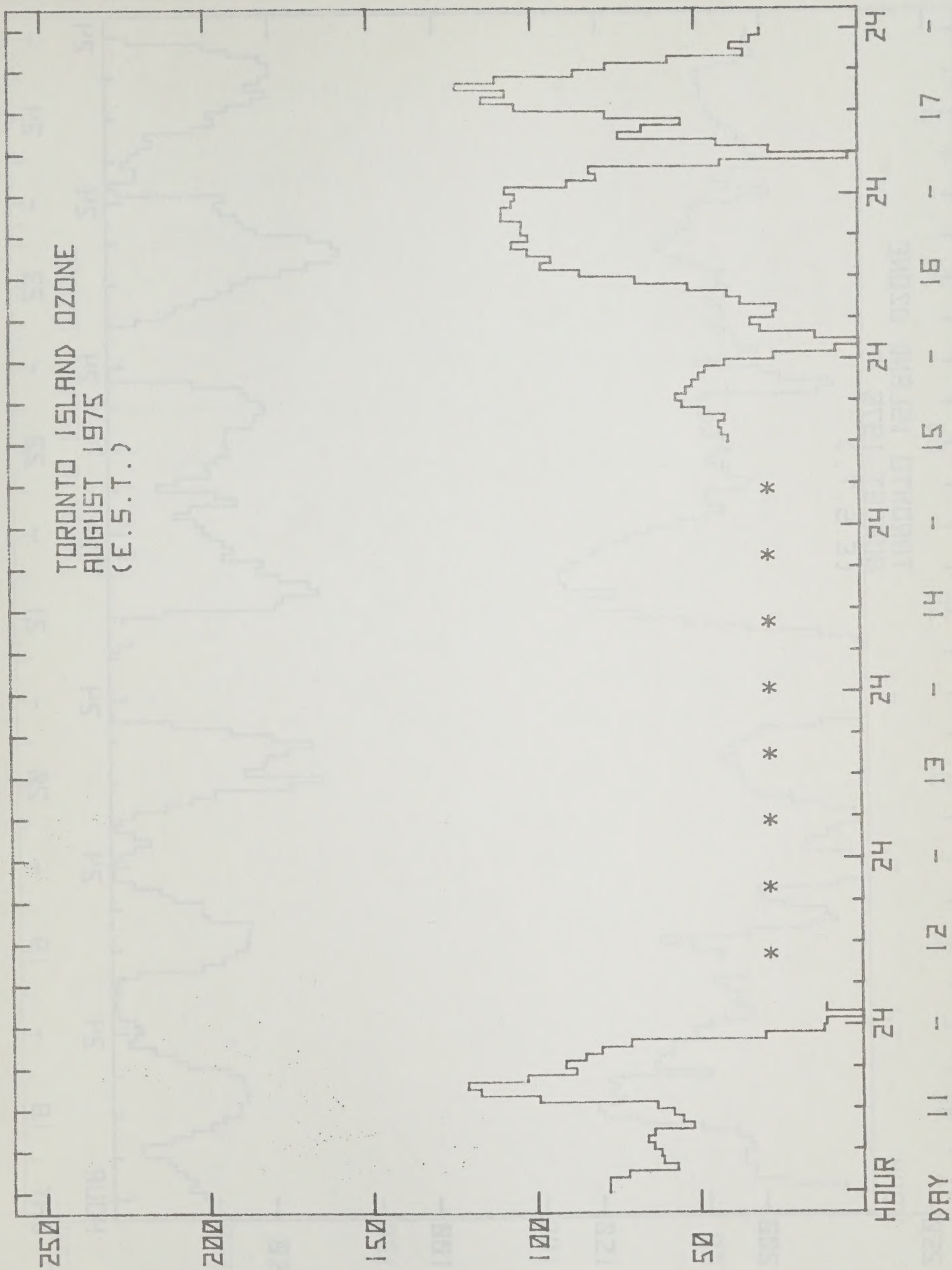
CONCENTRATION (PPB)

TORONTO ISLAND OZONE
AUGUST 1975
(E.S.T.)



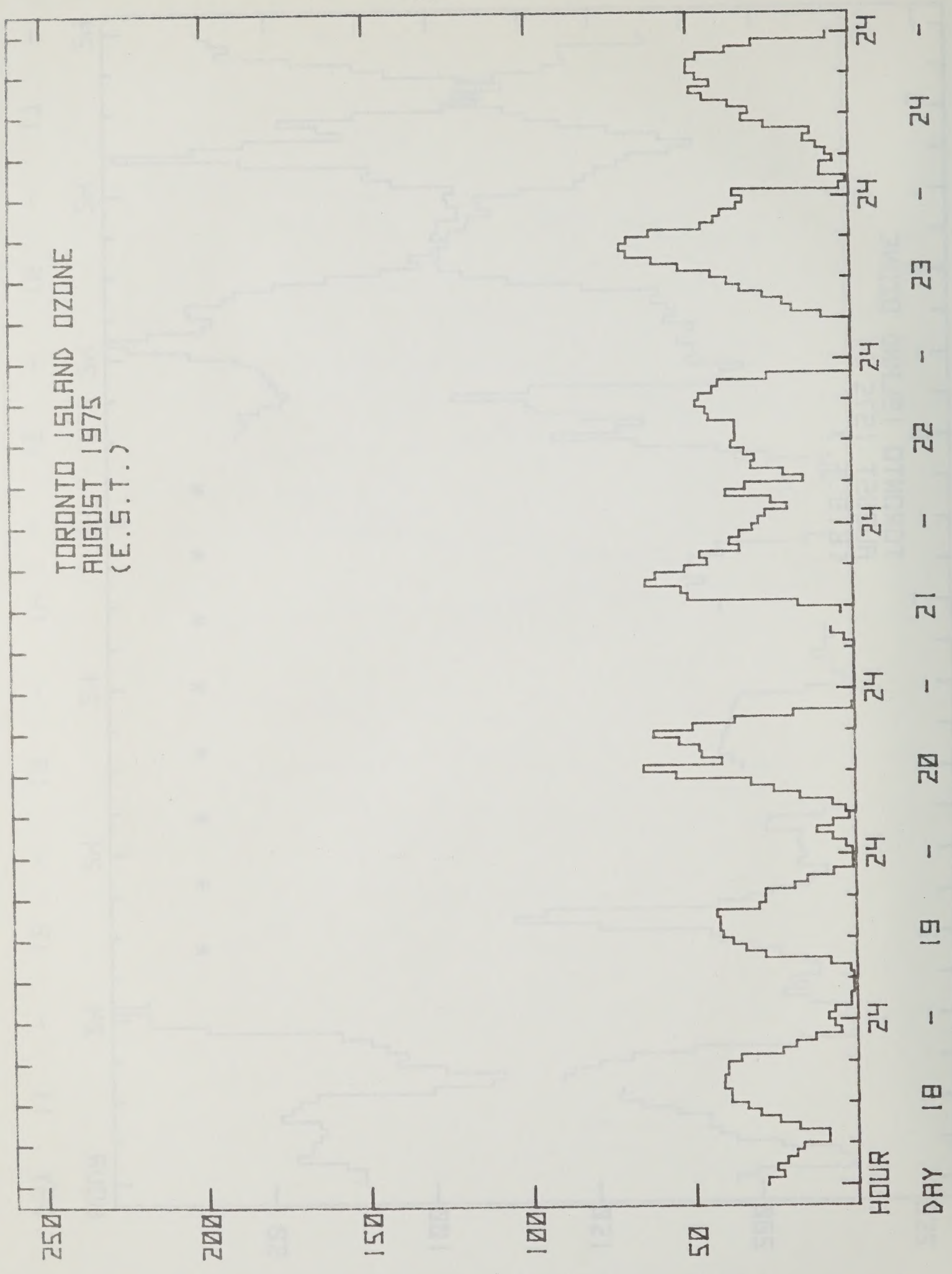
CONCENTRATION (PPB)

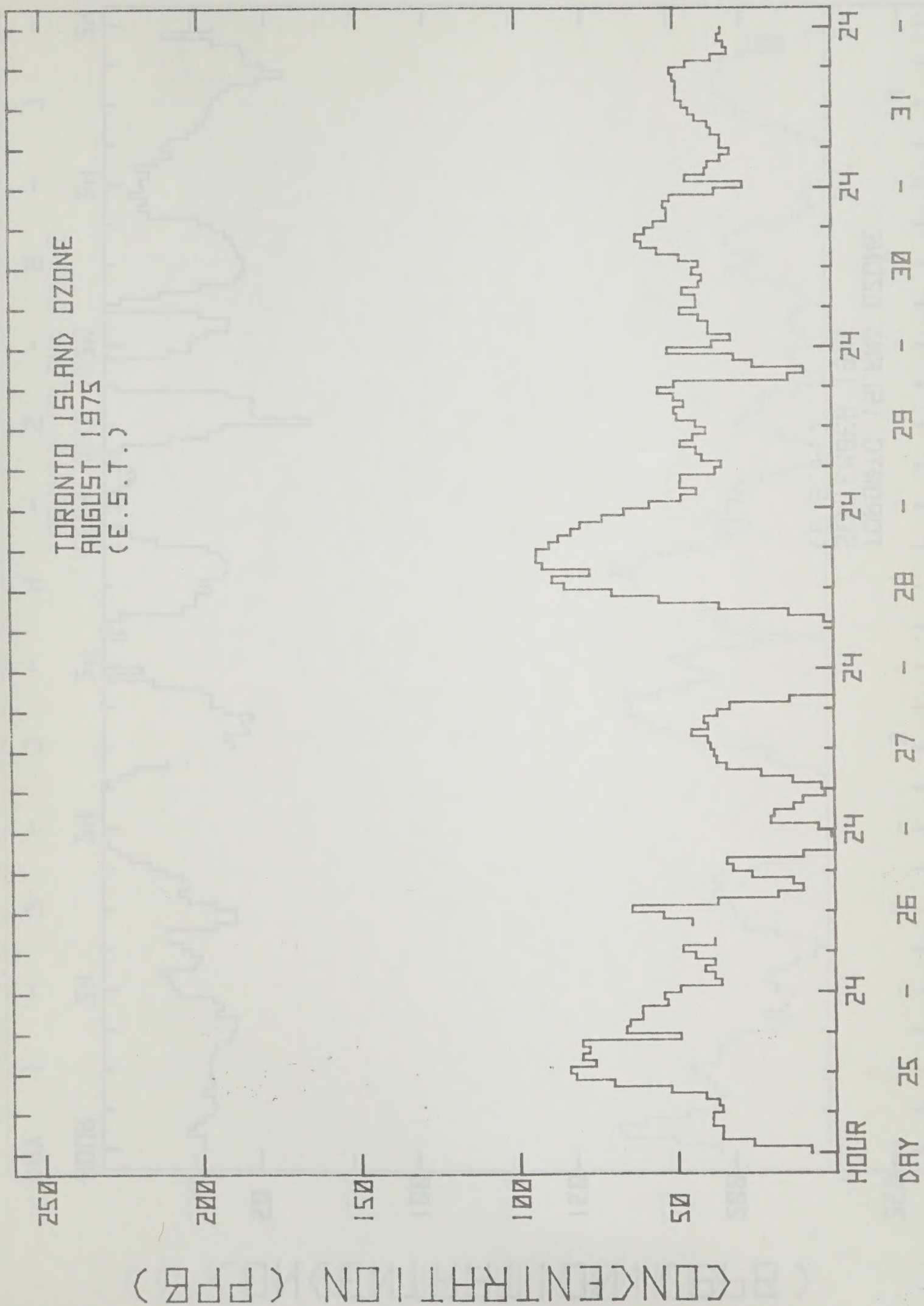
TORONTO ISLAND OZONE
AUGUST 1975
(E.S.T.)



CONCENTRATION (PPB)

TORONTO ISLAND OZONE
AUGUST 1975
(E.S.T.)





CONCENTRATION (PPB)

TORONTO ISLAND OZONE
SEPTEMBER 1975
(E.S.T.)

250

200

150

100

50

HOUR

24

DAY 1

2

24

3

24

4

24

5

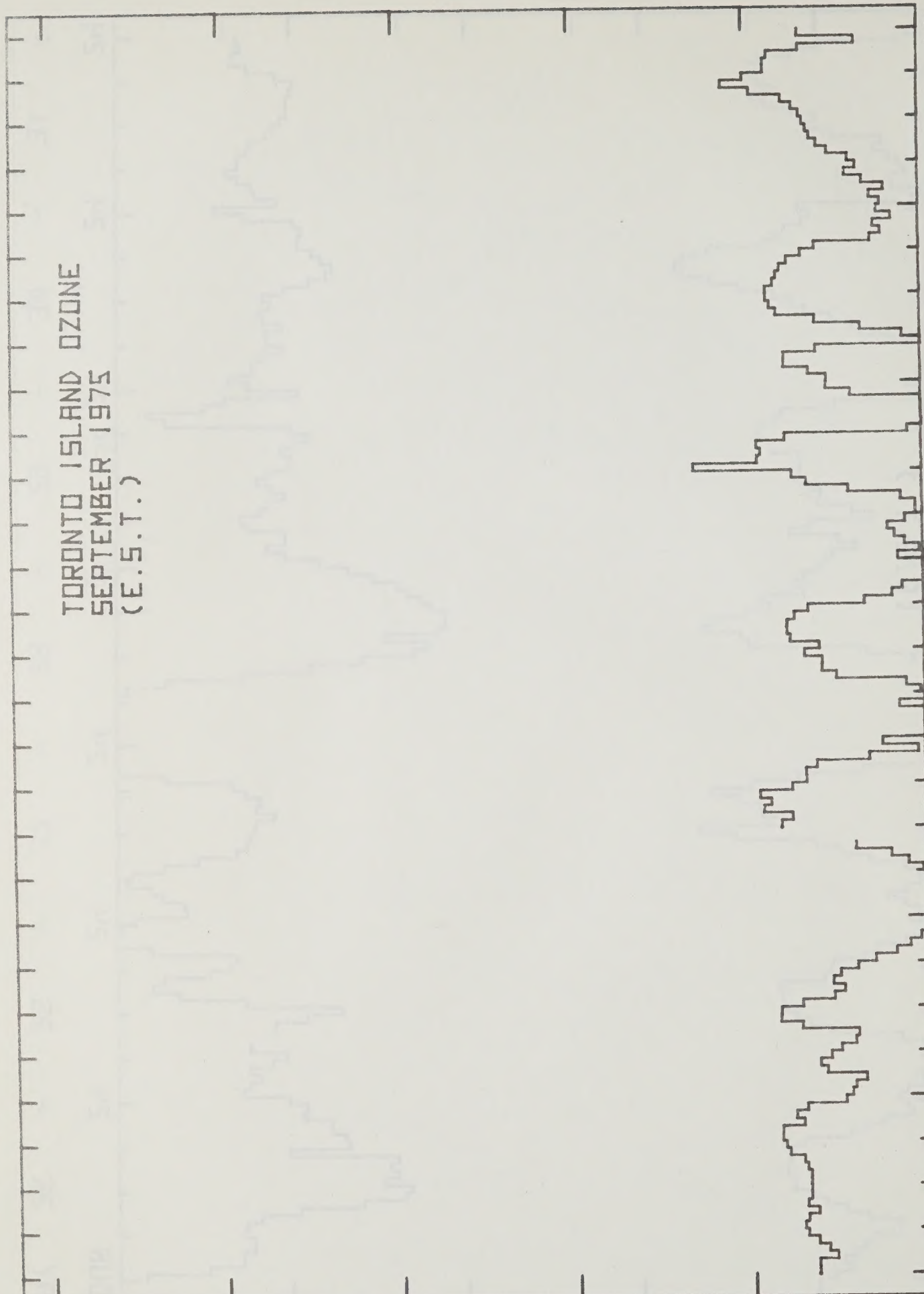
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6

24

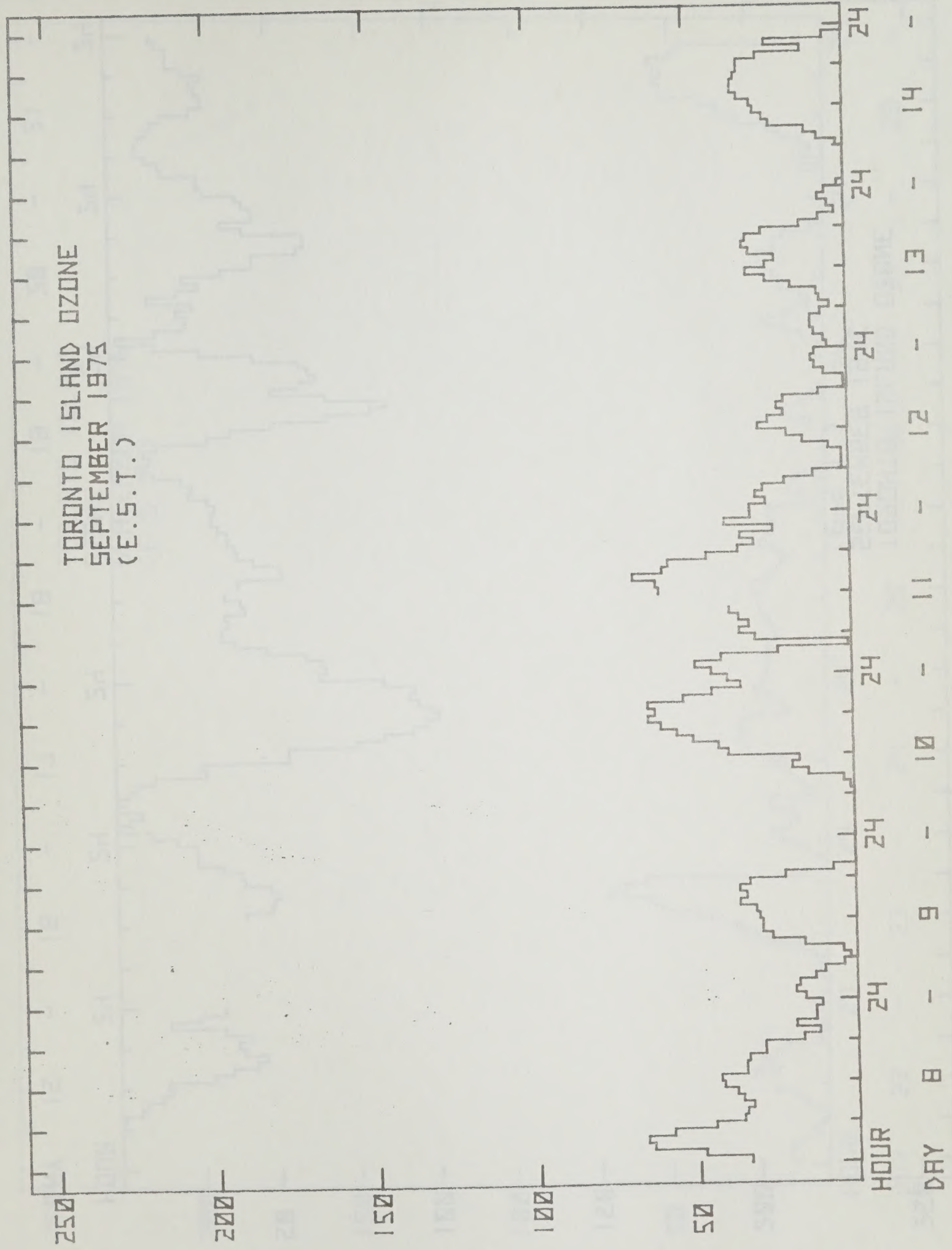
7

24



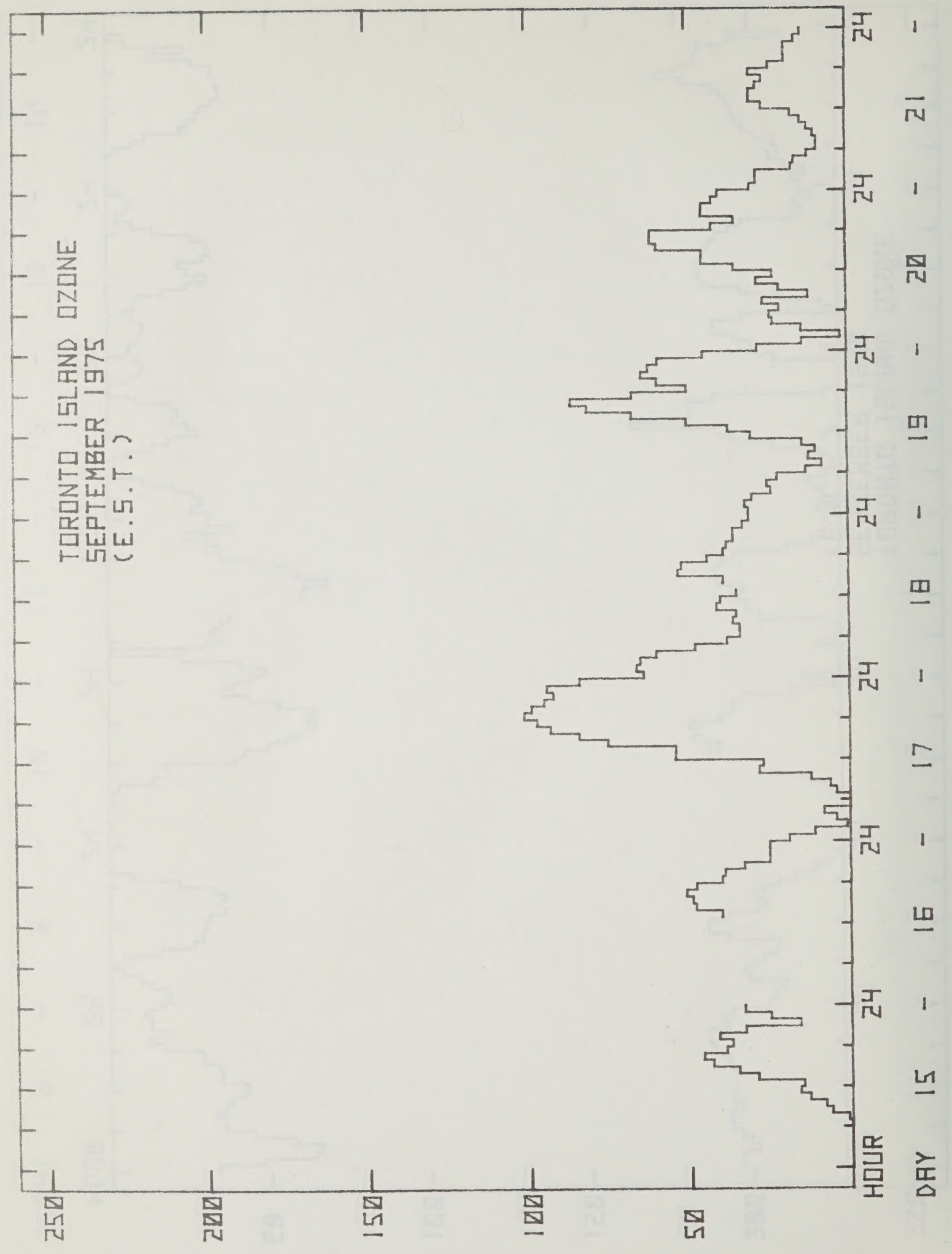
(CONCENTRATION (PPB))

TORONTO ISLAND OZONE
SEPTEMBER 1975
(E.S.T.)



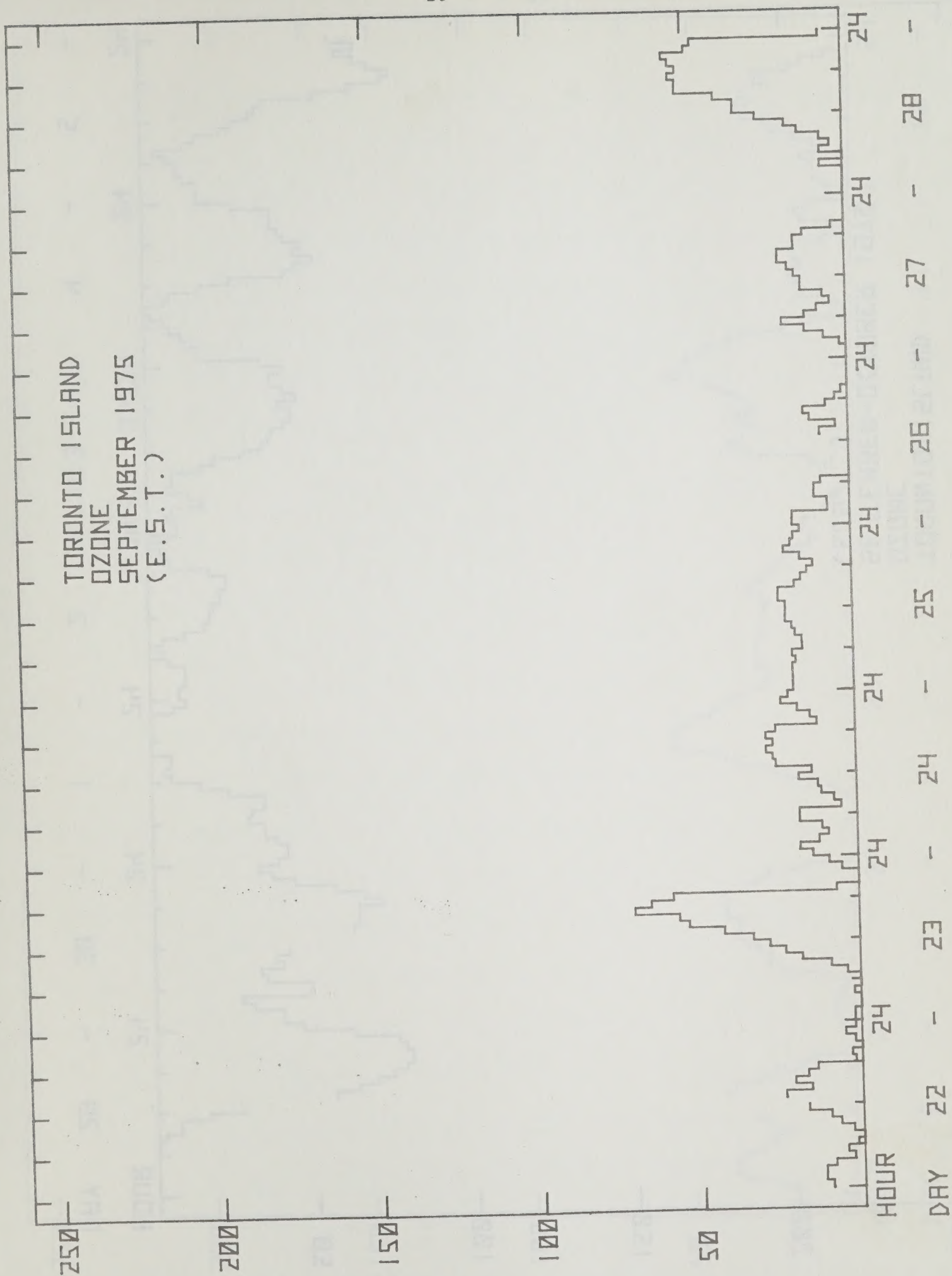
CONCENTRATION (PPB)

TORONTO ISLAND OZONE
SEPTEMBER 1975
(E.S.T.)



TORONTO ISLAND
OZONE
SEPTEMBER 1975
(E.S.T.)

CONCENTRATION (PPB)



CONCENTRATION (PPB)

TORONTO ISLAND
OZONE
SEPTEMBER-OCTOBER 1975
(E.S.T.)

250
200
150
100
50

HOUR

24

24

24

24

24

24

24

DAY 29

30

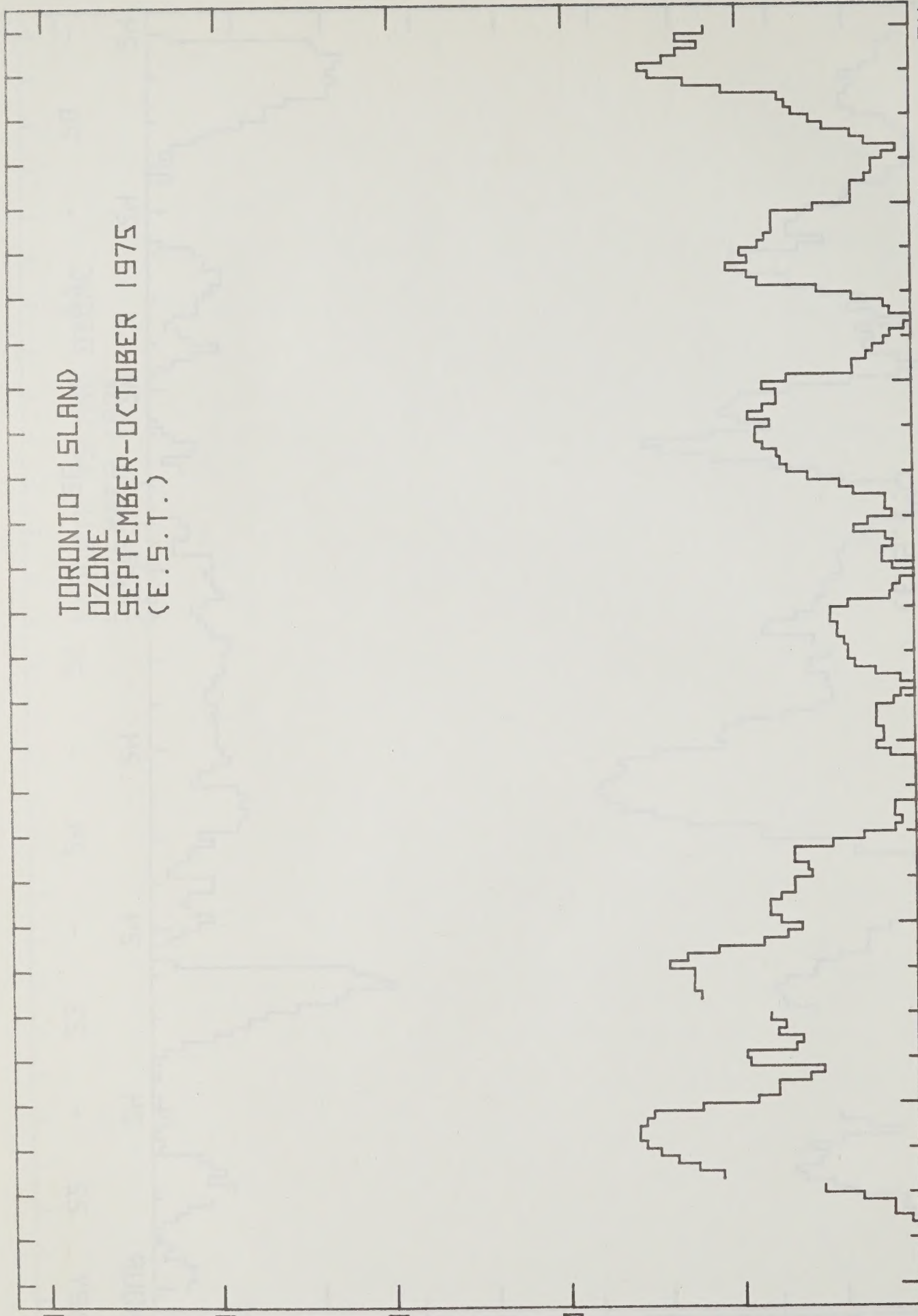
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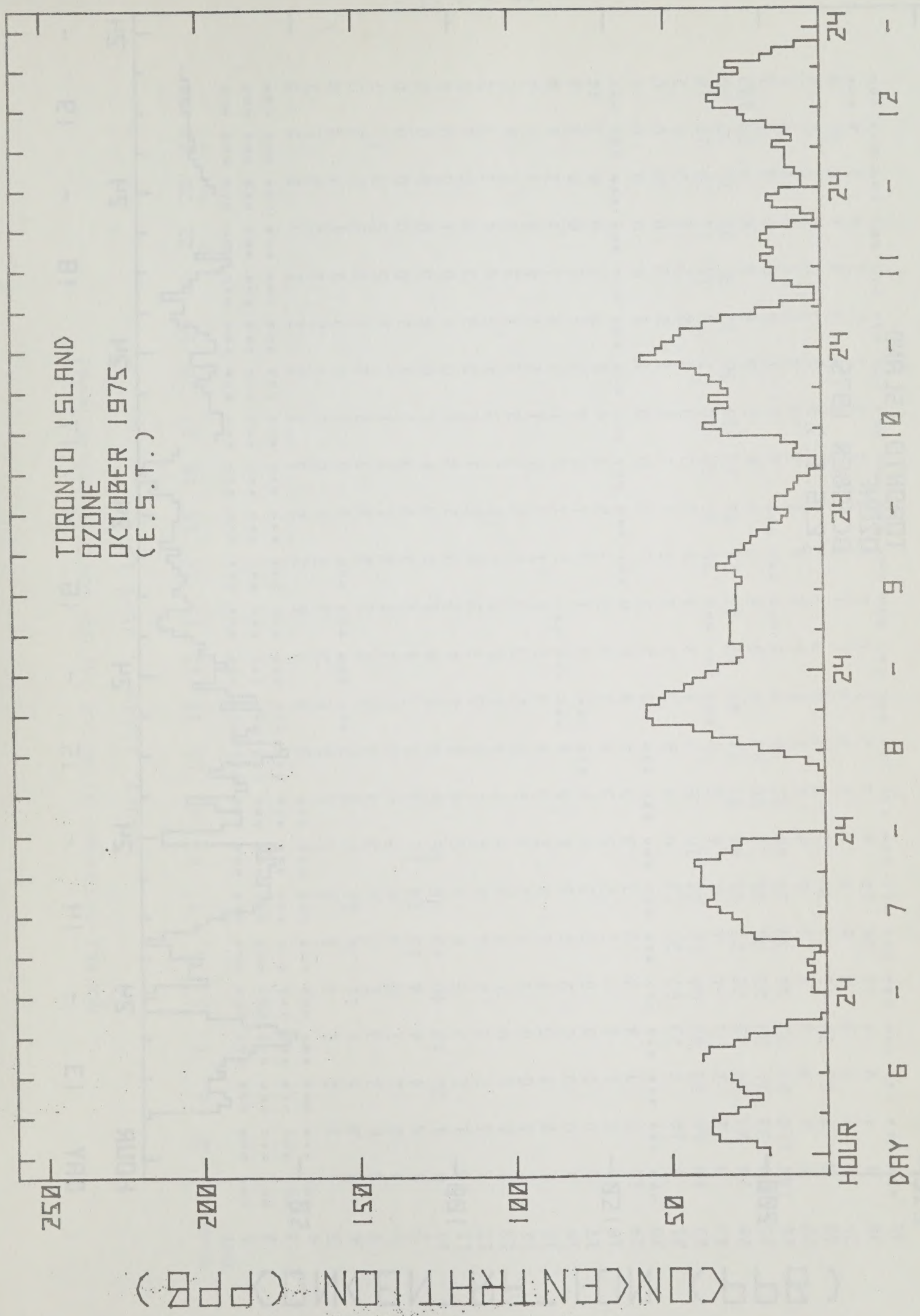
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3

4

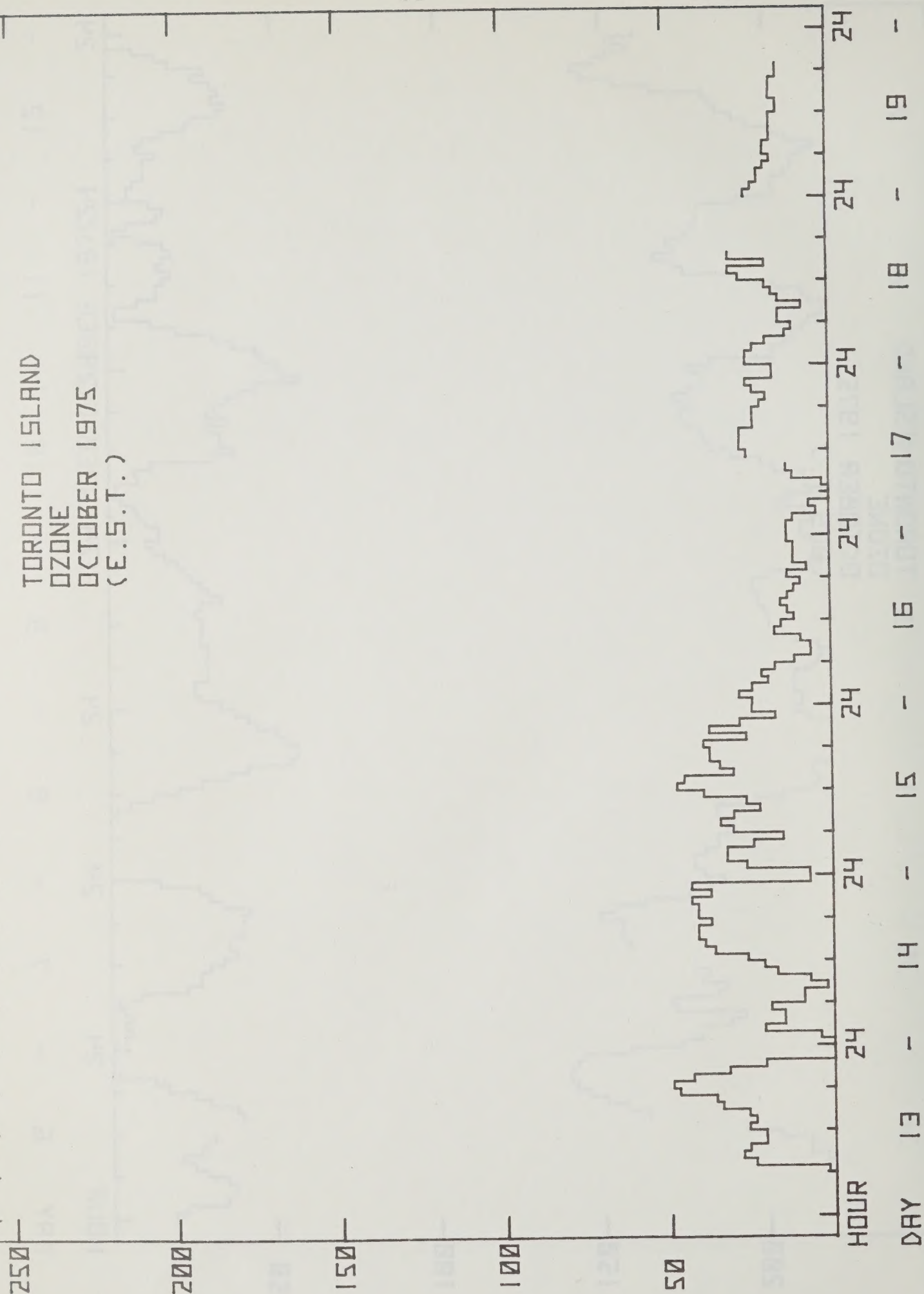
5





CONCENTRATION (PPB)

TORONTO ISLAND
OZONE
OCTOBER 1975
(E.S.T.)



HOURLY-AVERAGED NITROGEN OXIDES CONCENTRATION (PPB)

TORONTO ISLAND , JULY 1975

HOURLY DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	76	74	66	50	27	24	38	39	4	4	2	2	2	2	1	1	1	2	2	1	0	3	5	26
2	18	25	30	23	13	21	44	94	44	15	12	***	***	3	4	12	21	21	10	6	4	5	6	7
3	6	5	6	3	4	8	11	20	21	16	8	2	2	1	1	1	1	1	1	1	9	23	9	18
4	26	7	4	3	4	10	15	32	29	10	4	3	3	3	3	3	5	8	9	10	18	20	33	17
5	19	12	13	15	9	8	13	17	16	10	7	5	4	3	4	7	4	3	2	2	3	3	6	10
6	31	51	50	53	48	40	35	23	14	11	7	4	2	3	3	3	2	2	2	1	1	1	0	1
7	3	7	42	5	6	22	15	8	9	6	4	3	3	3	3	4	4	5	13	22	30	9	11	7
8	1	40	2	22	12	6	12	16	12	12	11	6	5	5	4	3	4	4	2	3	7	8	5	6
9	4	4	2	2	2	4	12	18	5	***	***	8	20	10	2	1	1	1	2	1	2	26	28	9
10	3	3	3	3	3	8	12	16	11	10	6	3	6	3	1	3	1	1	2	1	2	4	11	23
11	6	4	3	2	4	8	16	16	11	14	13	***	0	3	1	1	2	1	1	1	0	0	0	9
12	47	70	76	51	46	46	41	46	18	14	8	3	2	1	1	1	2	1	1	1	0	0	2	2
13	38	10	11	14	5	1	1	2	1	3	2	2	2	2	2	2	2	2	4	4	3	4	4	4
14	1	3	2	1	0	1	3	6	5	14	15	9	4	6	1	6	5	5	2	3	2	1	2	3
15	5	6	5	4	3	5	9	14	14	10	9	5	5	3	3	3	3	5	4	4	3	4	3	3
16	3	10	14	20	23	25	18	17	12	7	5	4	3	7	6	6	9	7	5	2	3	7	7	7
17	5	8	7	8	8	7	5	6	7	***	***	7	7	14	6	6	7	8	8	8	8	8	10	8
18	6	5	4	4	6	8	10	6	6	6	7	7	8	8	7	8	11	7	7	7	11	8	21	32
19	7	6	7	7	6	6	6	6	7	***	***	7	7	8	7	8	11	7	7	7	***	***	***	***
20	8	8	8	7	8	7	9	11	12	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
21	12	11	7	7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
22	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
23	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
24	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
26	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
27	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
28	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
29	43	32	33	25	33	37	25	32	36	23	32	24	16	22	3	5	9	9	7	18	27	32	42	49
30	47	51	68	60	37	33	29	27	23	29	26	18	15	14	12	8	4	5	13	16	19	29	12	24
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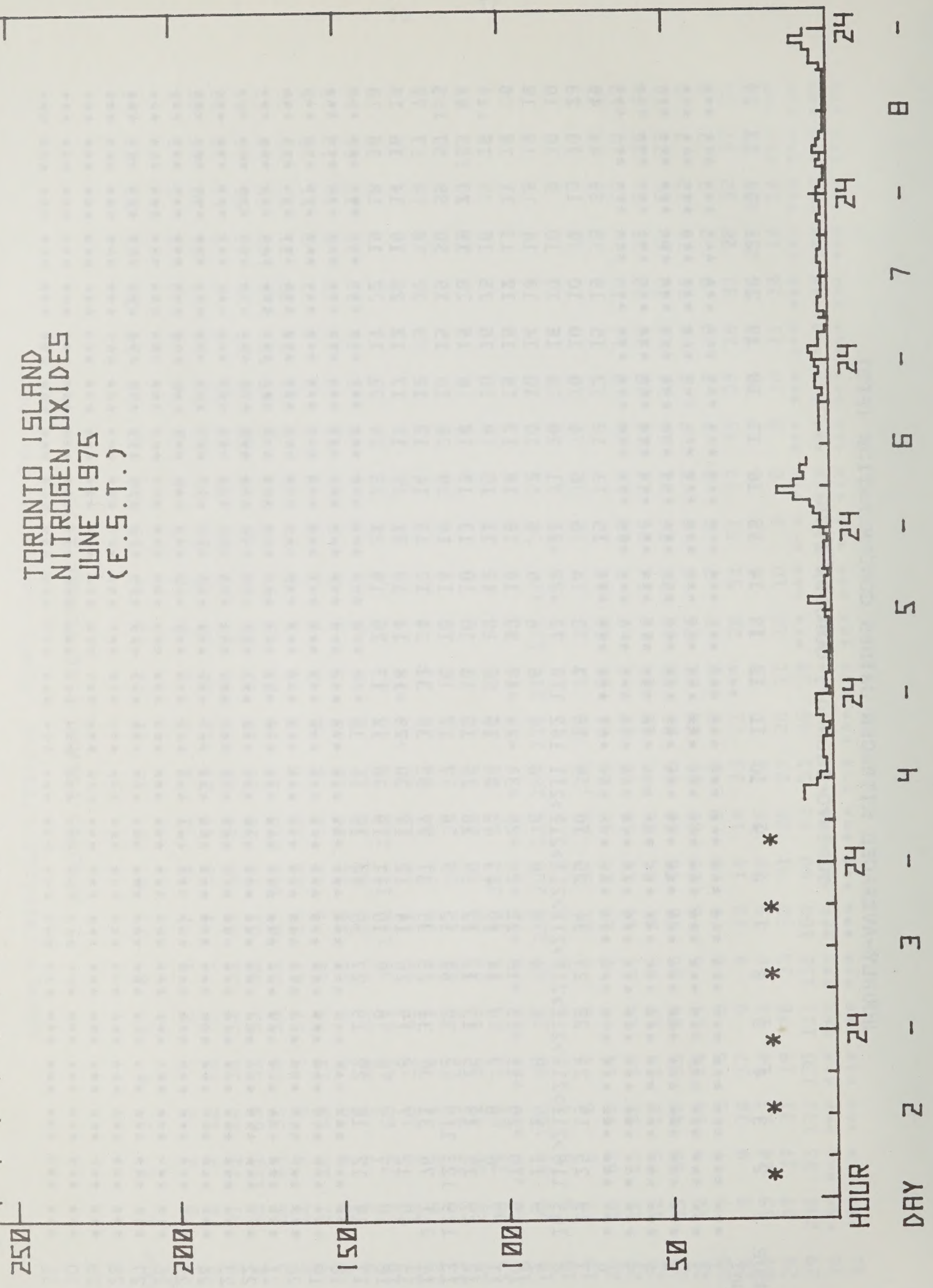
HOURLY-AVERAGED NITROGEN OXIDES CONCENTRATION (PPE)

TORONTO ISLAND , AUGUST 1975

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	45	67	46	15	60	100	75	40	48	59	47	29	21	15	11	9	7	7	9	11	8	10	22	24
2	68	64	54	44	52	51	25	24	20	18	15	12	7	7	6	8	7	6	12	51	18	16	19	59
3	99	97	21	15	16	13	15	17	36	16	10	12	15	13	9	8	7	6	5	7	7	6	6	9
4	12	19	65	82	42	22	14	20	24	32	24	17	11	***	***	***	***	***	***	***	***	***	***	***
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	31	43	46	101	162	153	120	121	60	25	9	2	4	4	3	4	8	6	68	171	204	205
9	15	12	12	14	9	10	17	21	18	11	9	6	4	4	1	2	2	5	7	15	8	19	12	13
10	15	15	12	11	6	8	18	17	13	8	7	6	11	5	5	5	6	6	6	7	10	17	15	8
11	6	5	2	1	2	2	1	4	6	12	14	19	10	8	9	7	9	10	4	11	16	24	38	39
12	66	60	20	25	27	37	53	113	108	75	34	28	26	12	9	6	6	10	7	11	12	12	10	9
13	9	9	13	41	51	48	50	58	22	32	31	10	8	6	14	35	10	25	28	15	11	***	***	***
14	***	***	***	***	***	***	***	***	41	28	***	***	***	***	***	***	***	***	***	***	***	***	***	***
15	***	***	***	***	***	***	***	***	***	***	***	***	15	11	10	9	6	3	1	2	2	4	4	6
16	20	54	62	35	12	10	19	25	11	13	10	8	5	5	4	4	5	4	5	5	5	4	4	4
17	4	8	9	8	52	79	59	40	16	22	32	31	26	13	11	10	9	11	13	21	36	31	23	15
18	11	13	8	11	11	12	29	***	23	13	14	16	7	11	11	9	7	9	9	6	20	27	38	25
19	25	26	28	34	38	39	94	117	108	33	14	14	12	12	21	12	25	21	19	21	21	30	46	49
20	38	32	23	20	25	35	48	59	42	24	24	27	24	17	5	3	3	4	8	16	33	76	84	81
21	70	63	91	90	106	165	222	160	59	***	***	49	38	13	19	11	17	23	22	11	18	14	14	17
22	14	14	16	17	10	16	42	38	19	18	18	15	19	14	18	6	5	2	4	5	7	20	206	194
23	182	194	221	233	142	152	37	15	13	12	8	5	4	3	3	2	3	2	4	14	11	3	3	3
24	***	***	***	58	32	12	22	36	66	73	56	51	34	24	15	12	10	6	7	12	7	5	5	10
25	27	34	29	10	5	2	5	5	7	7	7	5	2	2	5	7	7	6	7	5	6	8	7	10
26	11	18	11	7	10	4	5	9	***	***	11	13	18	29	44	76	62	41	24	21	44	128	62	51
27	34	18	18	22	25	37	55	48	32	16	16	11	11	10	9	10	9	15	18	33	55	77	123	157
28	176	158	140	110	74	104	161	190	158	73	87	71	42	11	5	5	7	3	5	4	3	2	2	2
29	6	15	18	11	9	17	22	18	16	14	13	9	9	8	8	9	7	7	15	48	51	33	26	13
30	20	19	6	4	3	3	6	7	5	4	4	3	3	2	2	2	1	1	1	1	1	1	1	0
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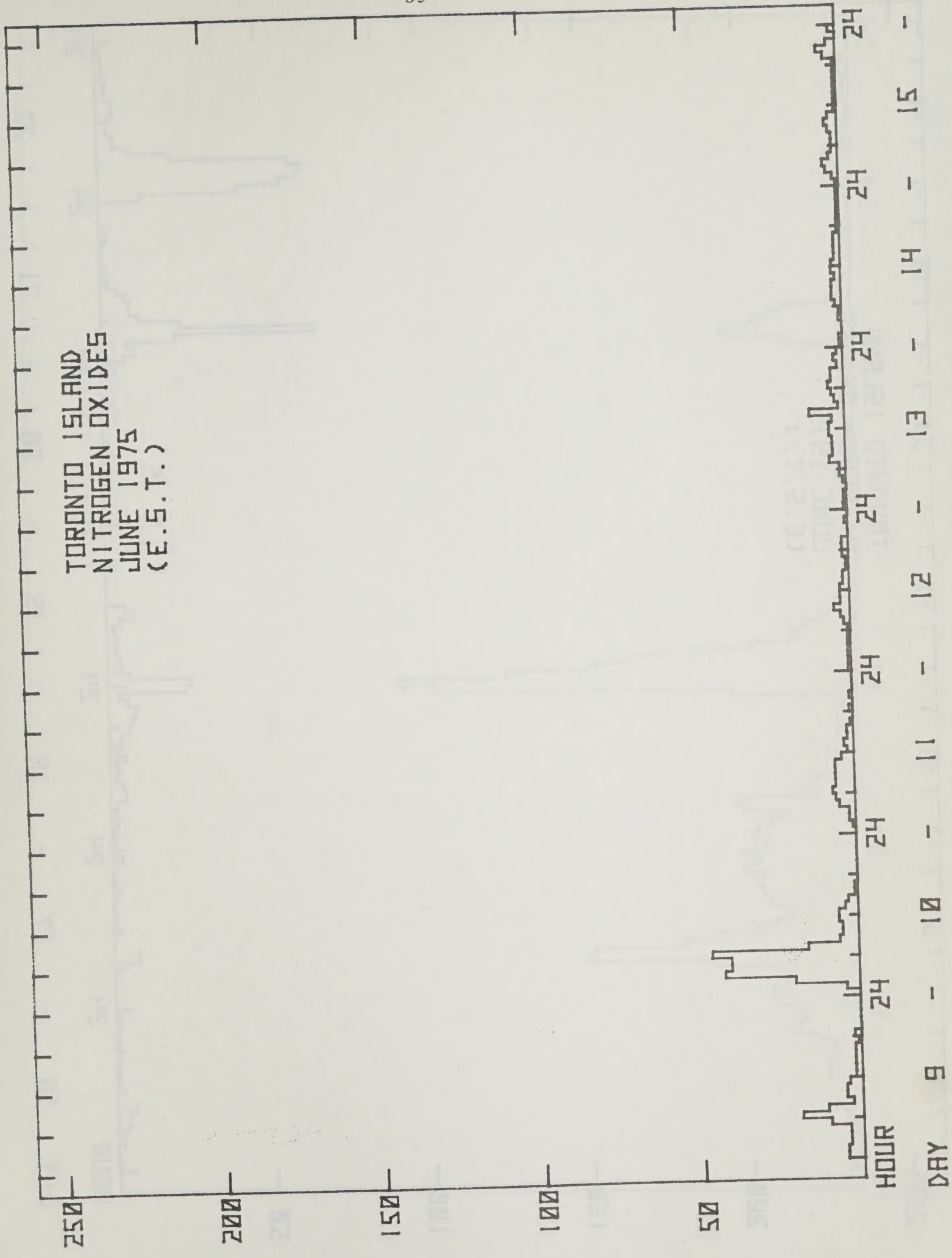
CONCENTRATION (PPB)

TORONTO ISLAND
NITROGEN OXIDES
JUNE 1975
(E.S.T.)



TORONTO ISLAND
NITROGEN OXIDES
JUNE 1975
(E.S.T.)

CONCENTRATION (PPB)



CONCENTRATION (PPB)

TORONTO ISLAND
NITROGEN OXIDES
JUNE 1975
(E.S.T.)

250

200

150

100

50

HOUR

DAY

16

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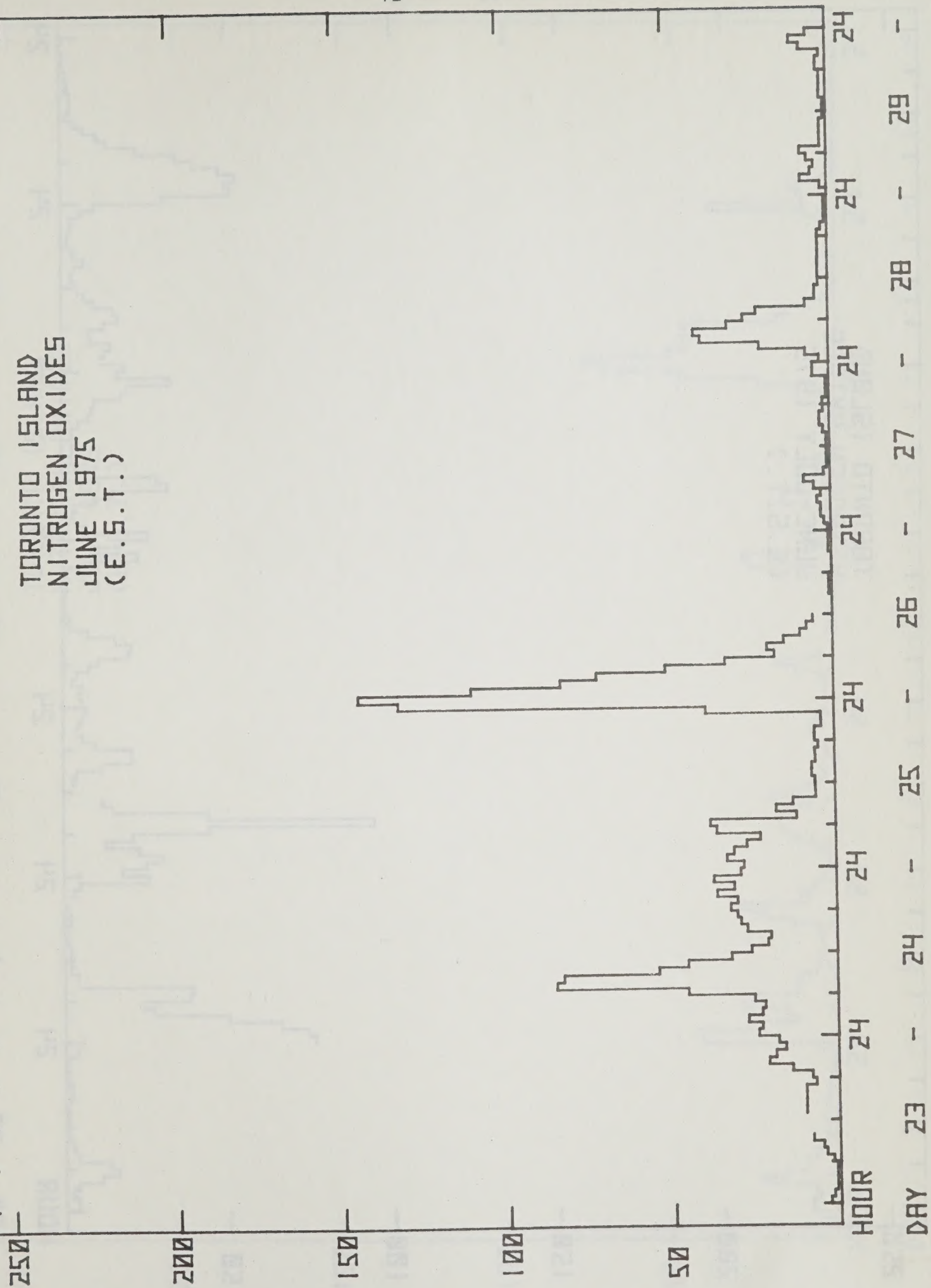
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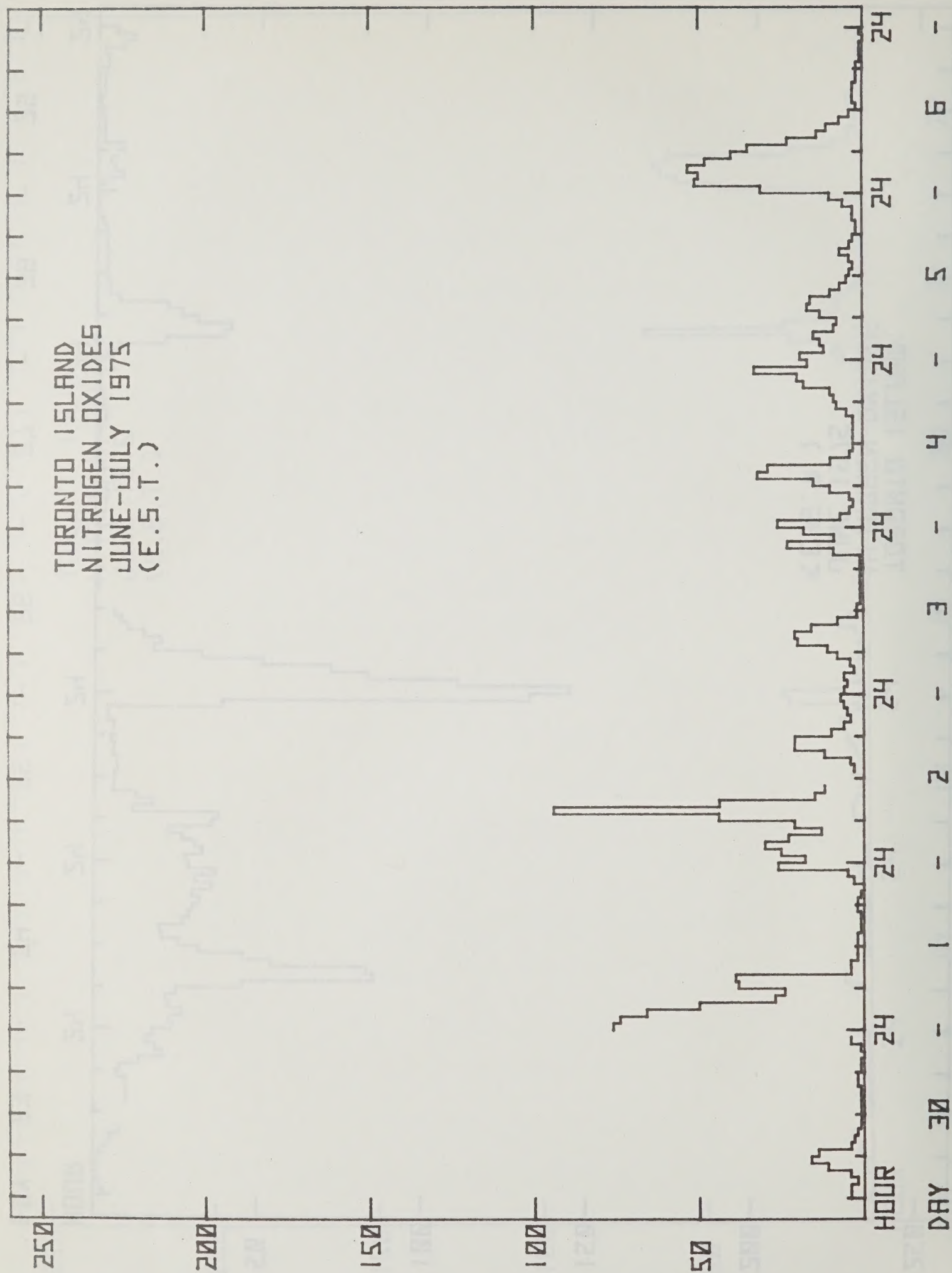
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24

24

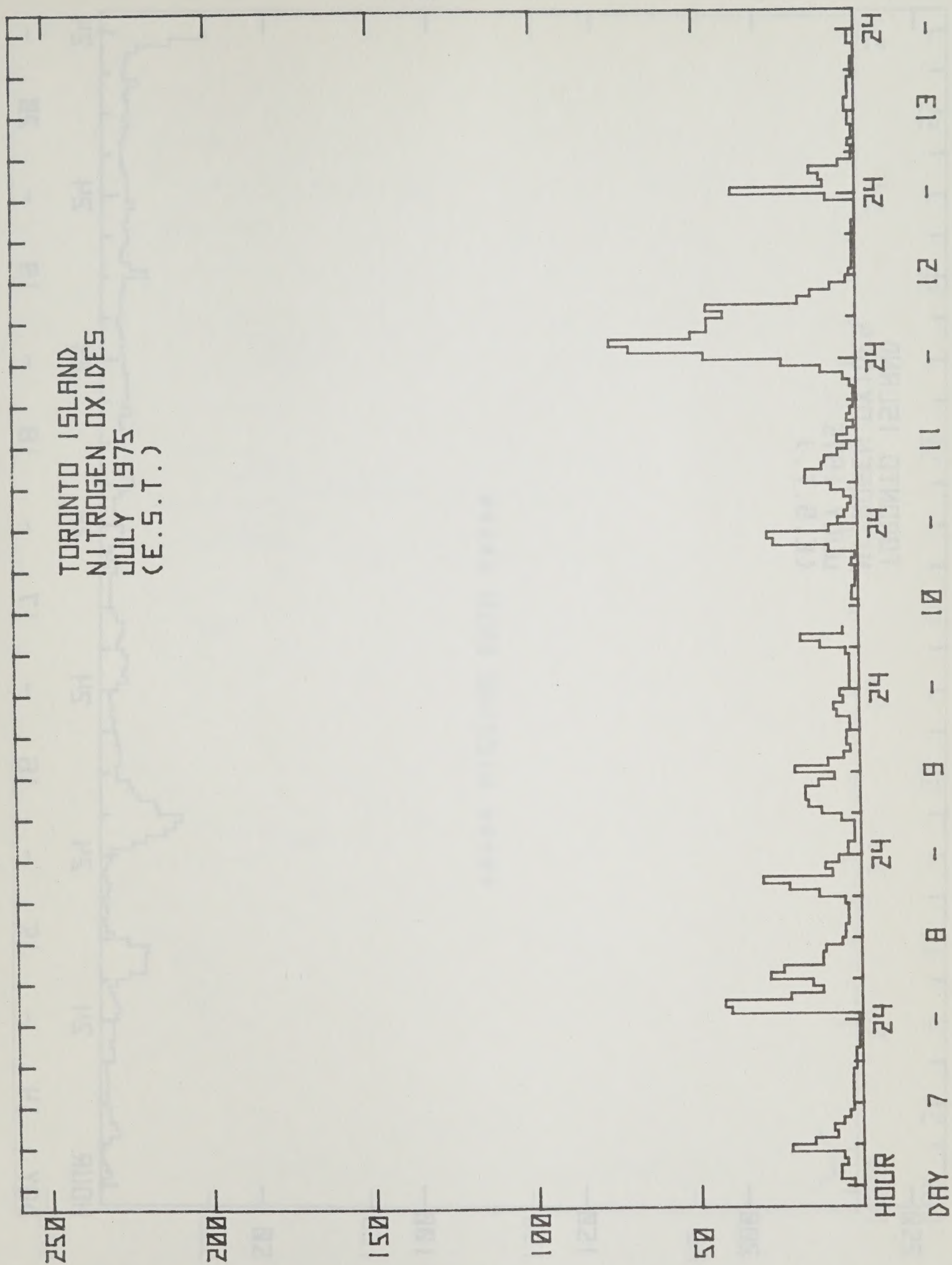
TORONTO ISLAND
NITROGEN OXIDES
JUNE 1975
(E.S.T.)





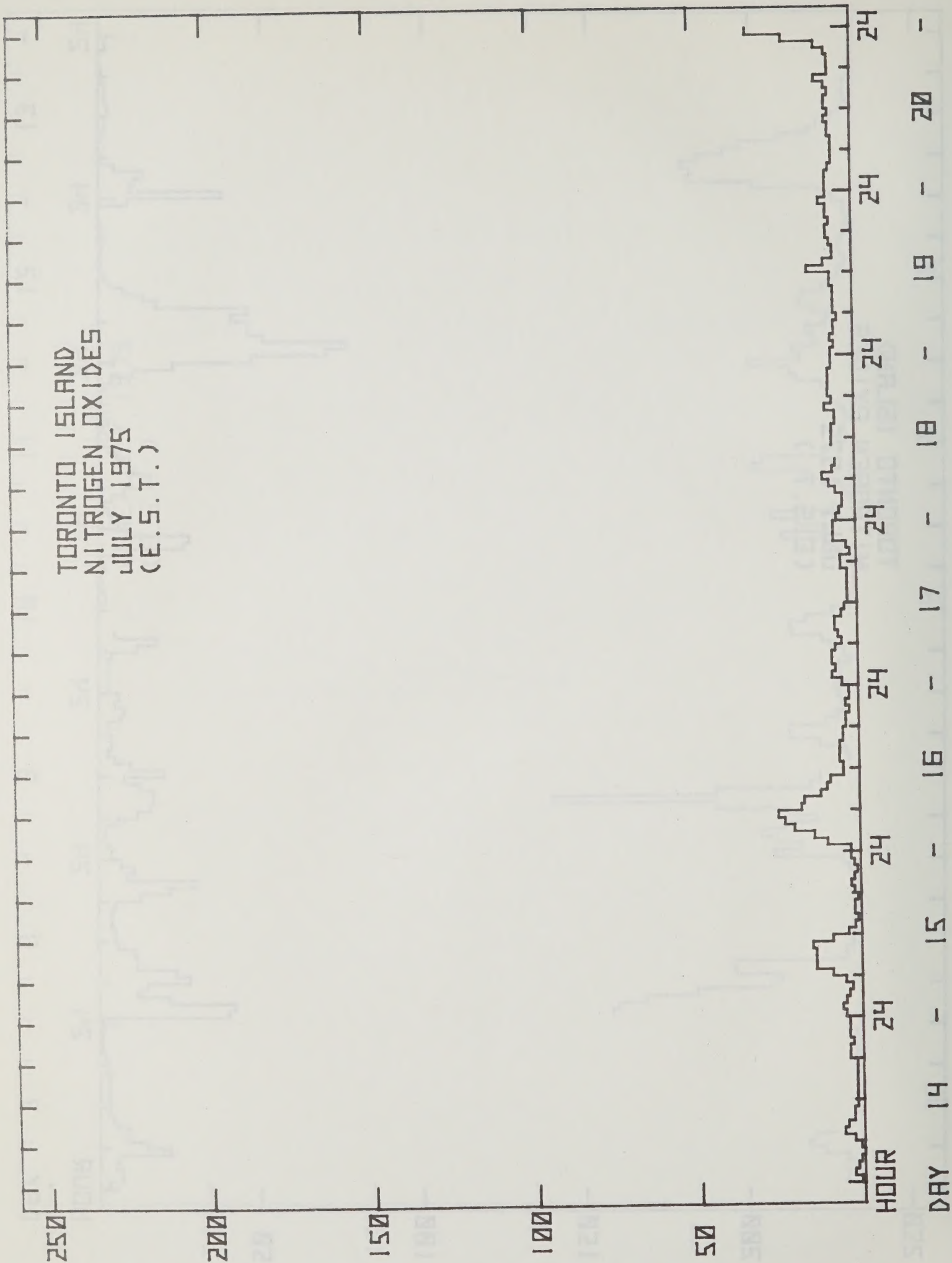
TORONTO ISLAND
NITROGEN OXIDES
JULY 1975
(E.S.T.)

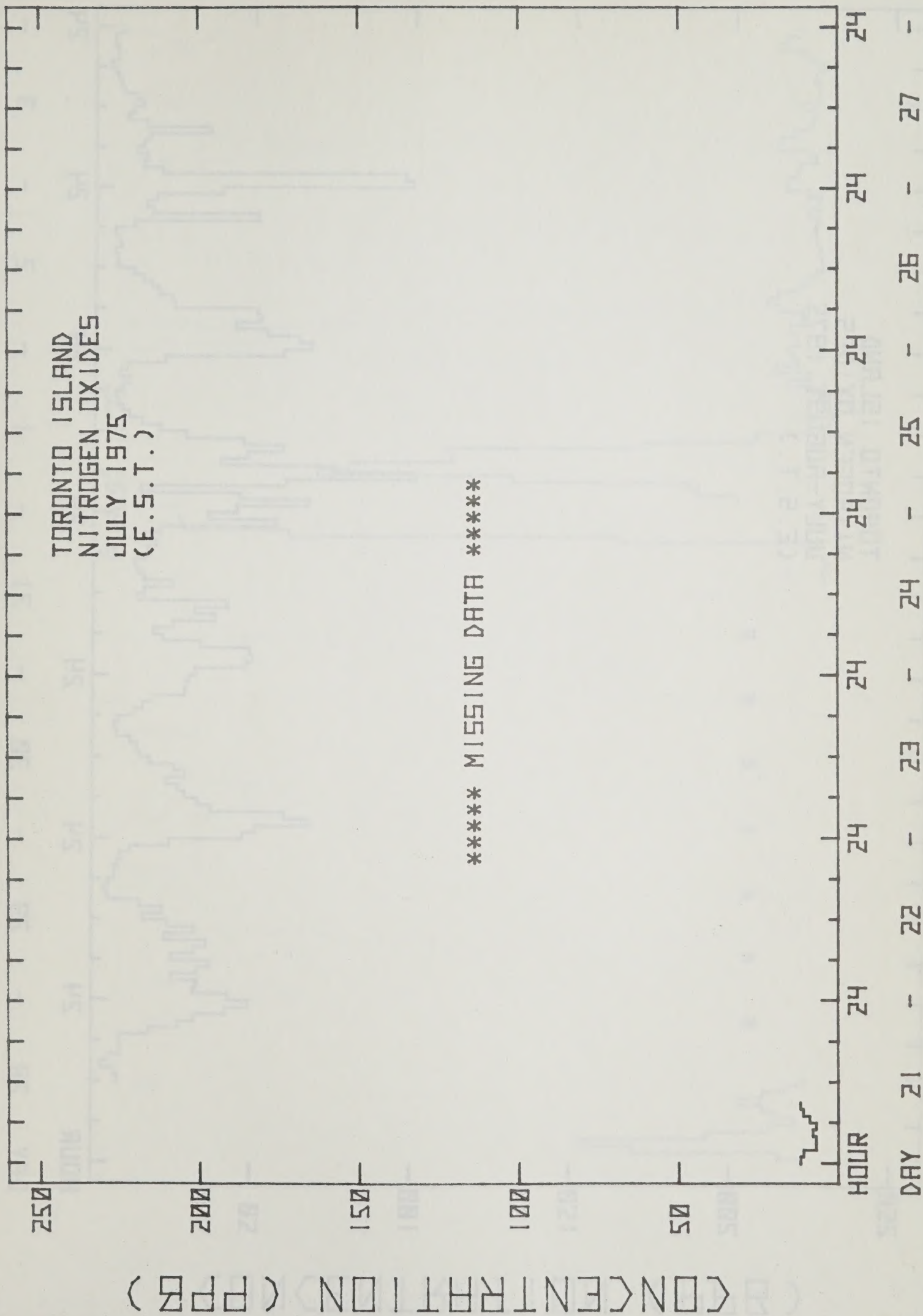
CONCENTRATION (PPB)

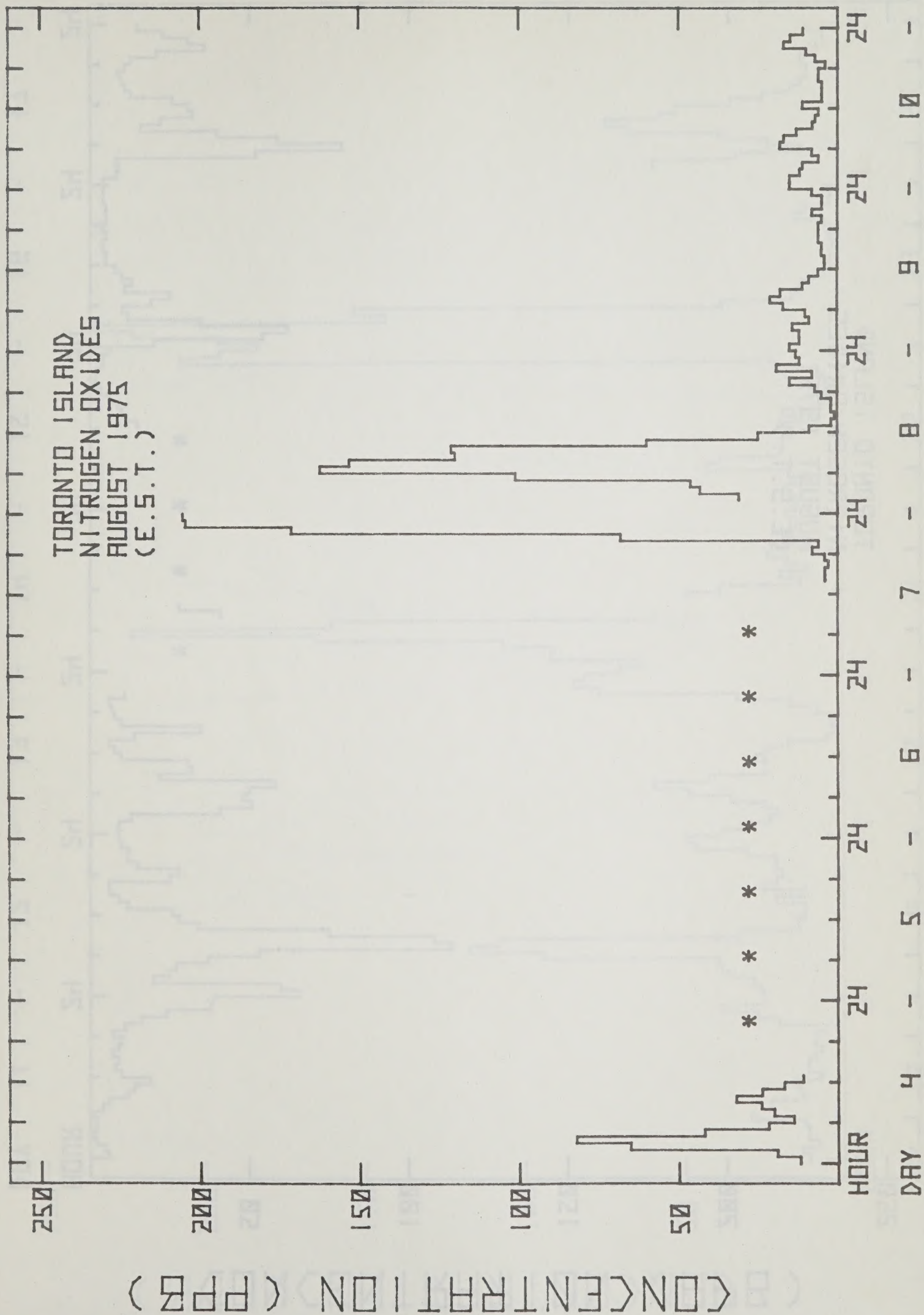


CONCENTRATION (PPB)

TORONTO ISLAND
NITROGEN OXIDES
JULY 1975
(E.S.T.)

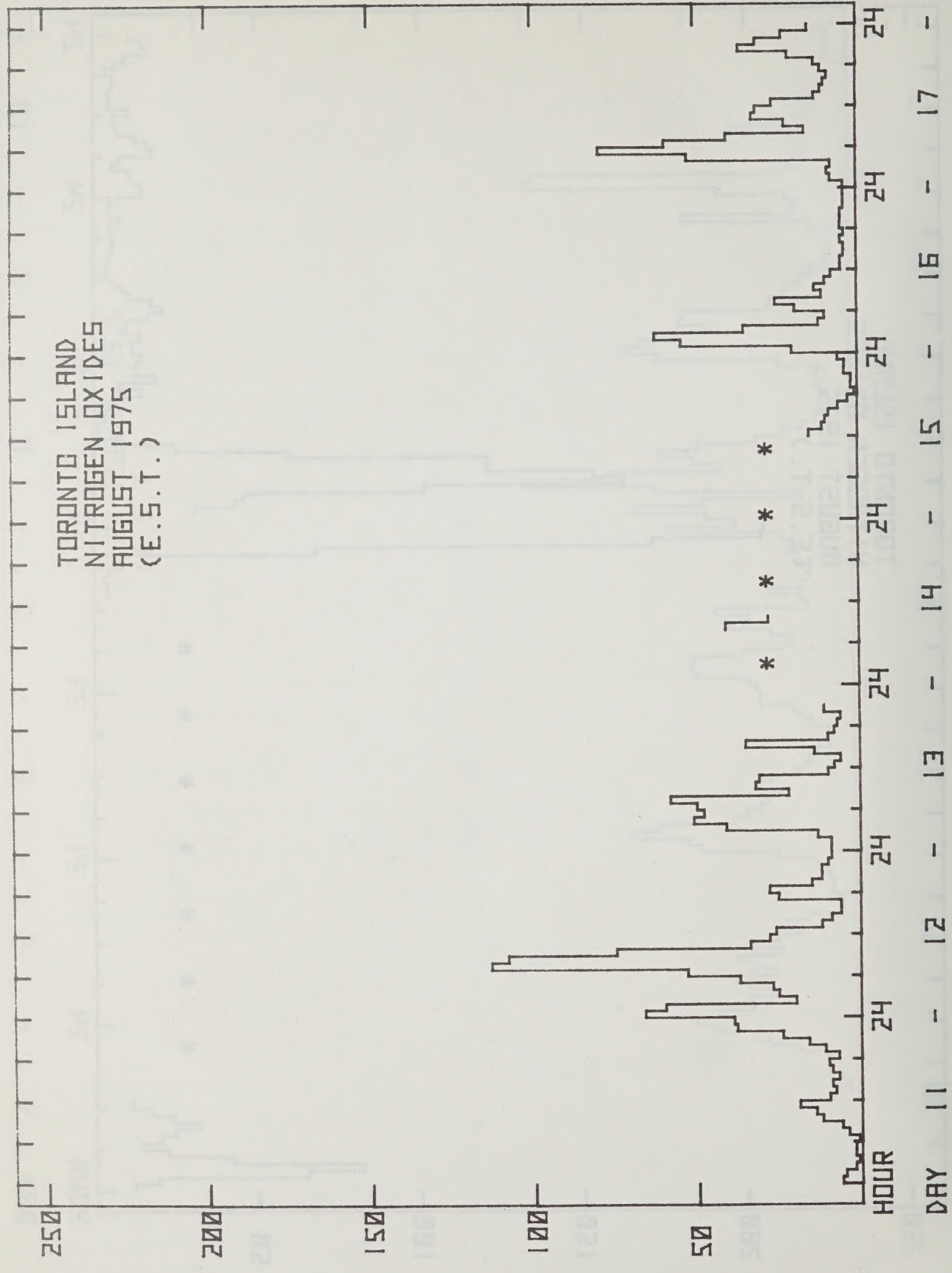


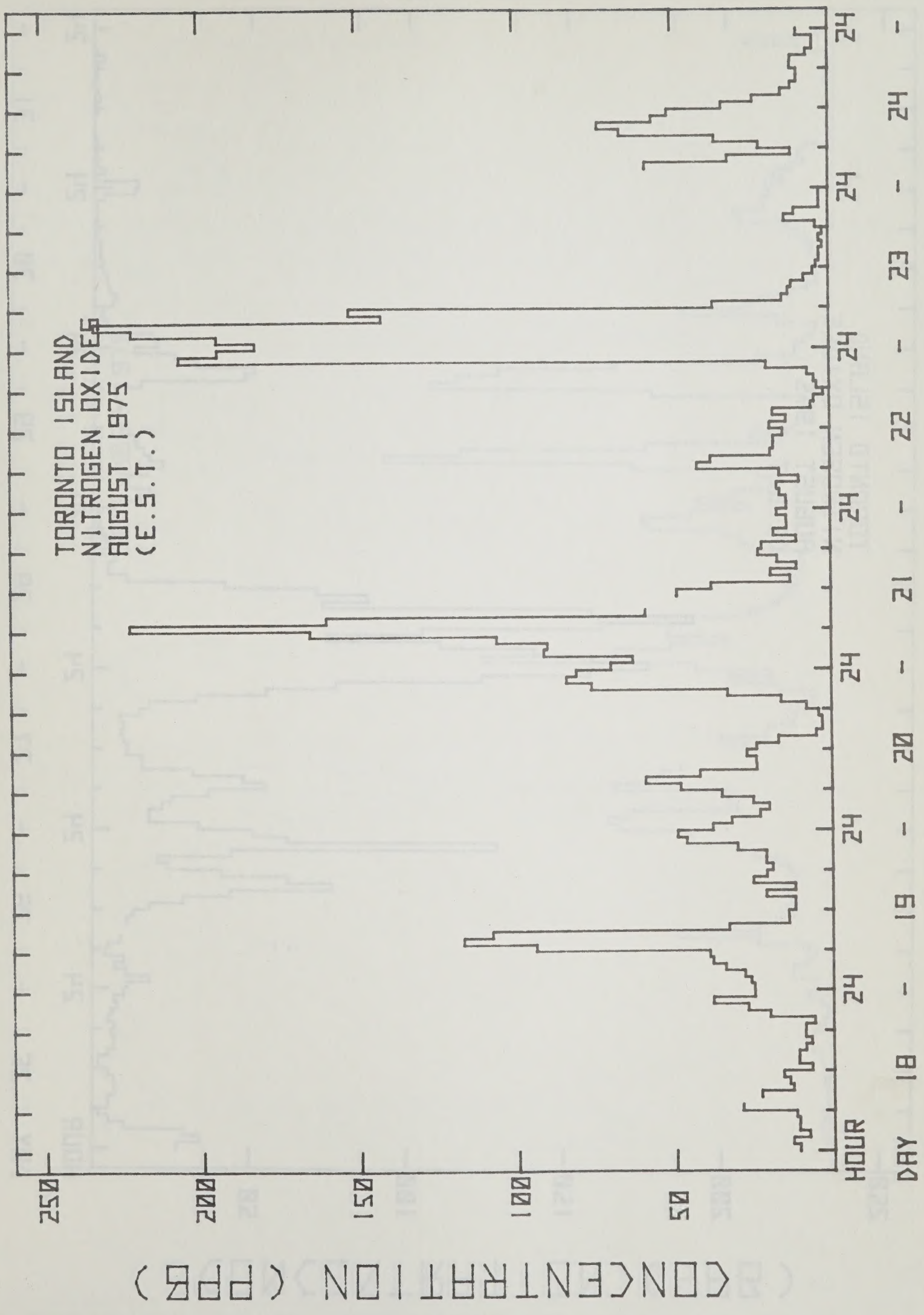




CONCENTRATION (PPB)

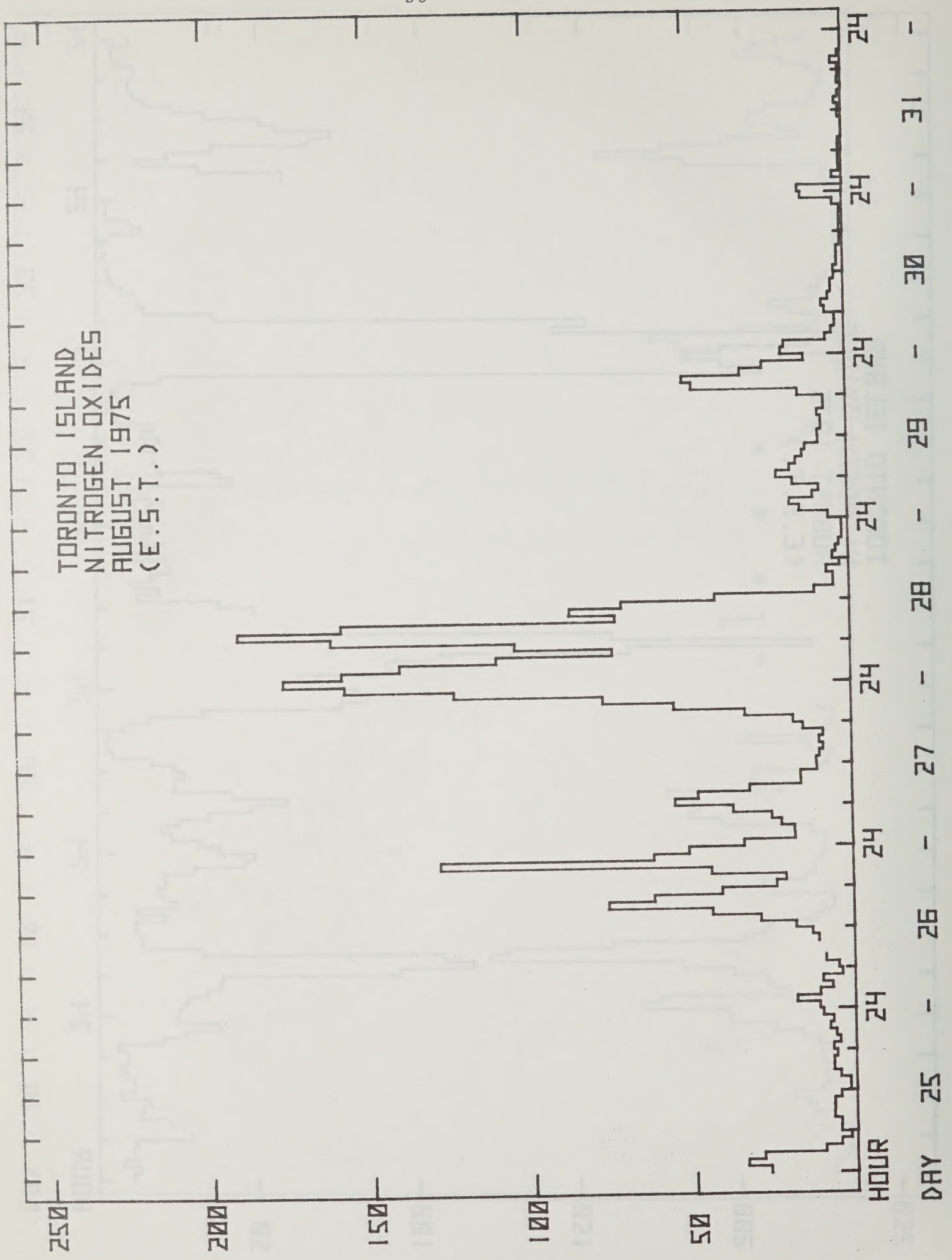
TORONTO ISLAND
NITROGEN OXIDES
AUGUST 1975
(E.S.T.)



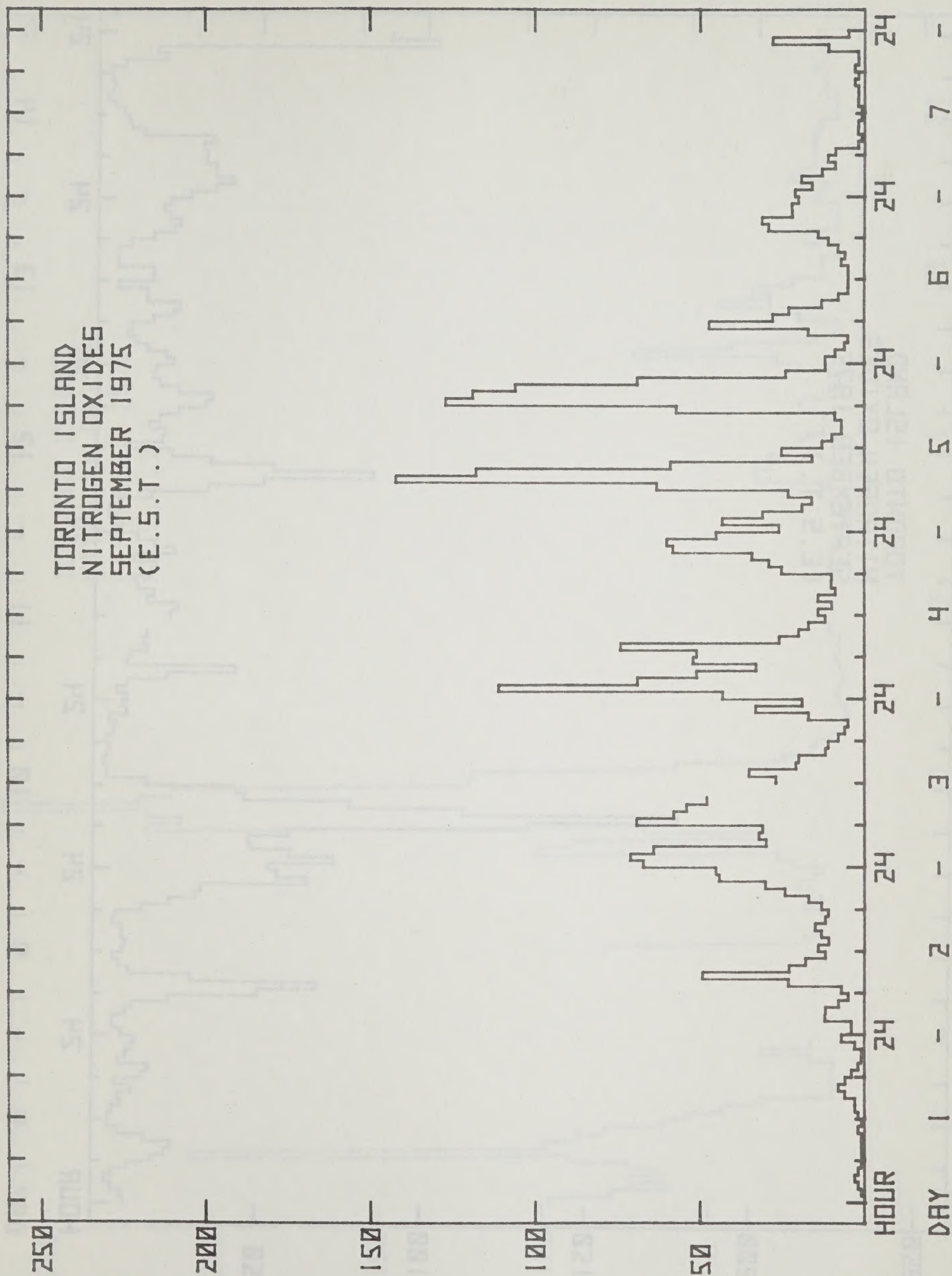


CONCENTRATION (PPB)

TORONTO ISLAND
NITROGEN OXIDES
AUGUST 1975
(E.S.T.)



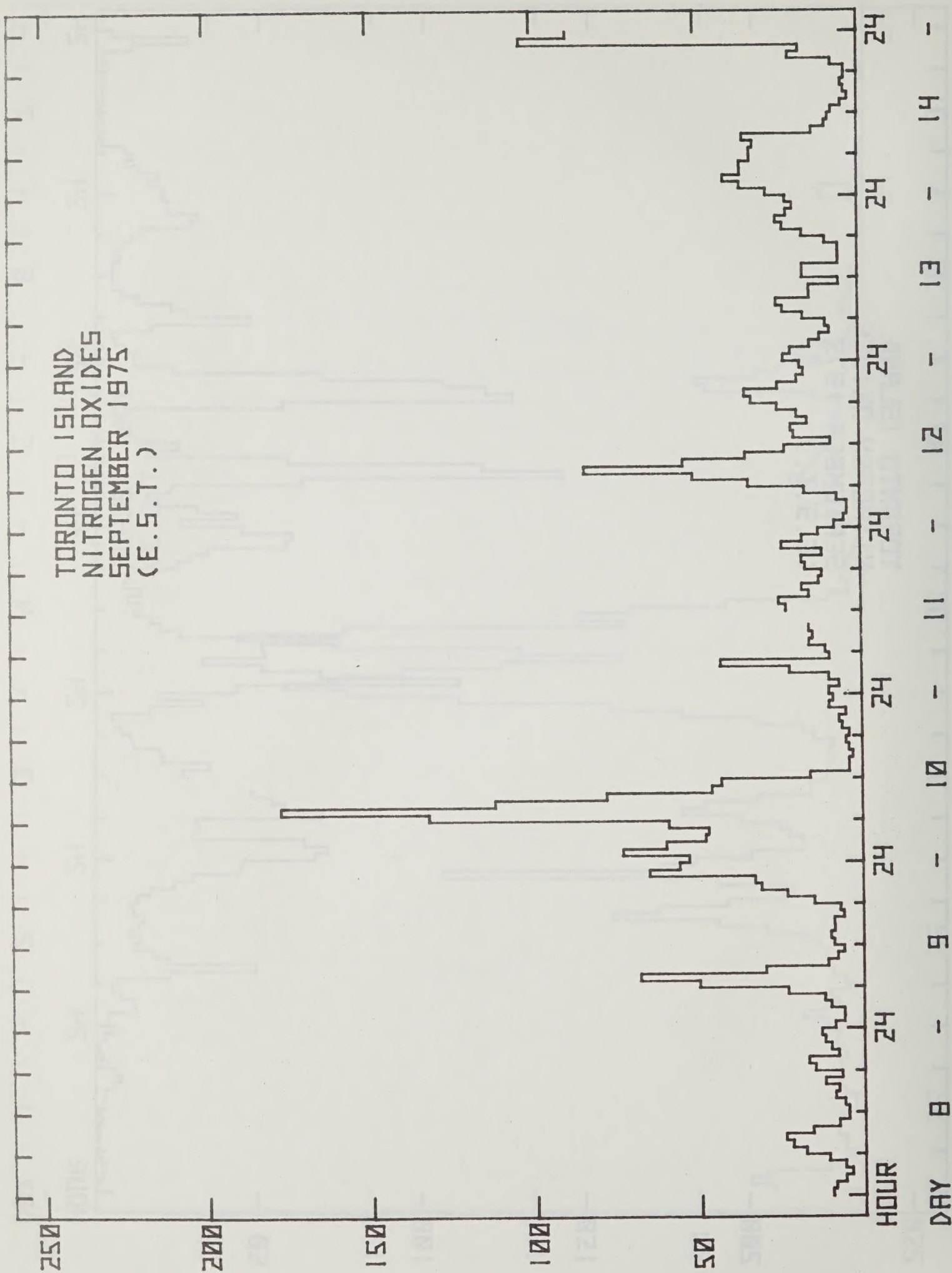
TORONTO ISLAND
NITROGEN OXIDES
SEPTEMBER 1975
(E.S.T.)

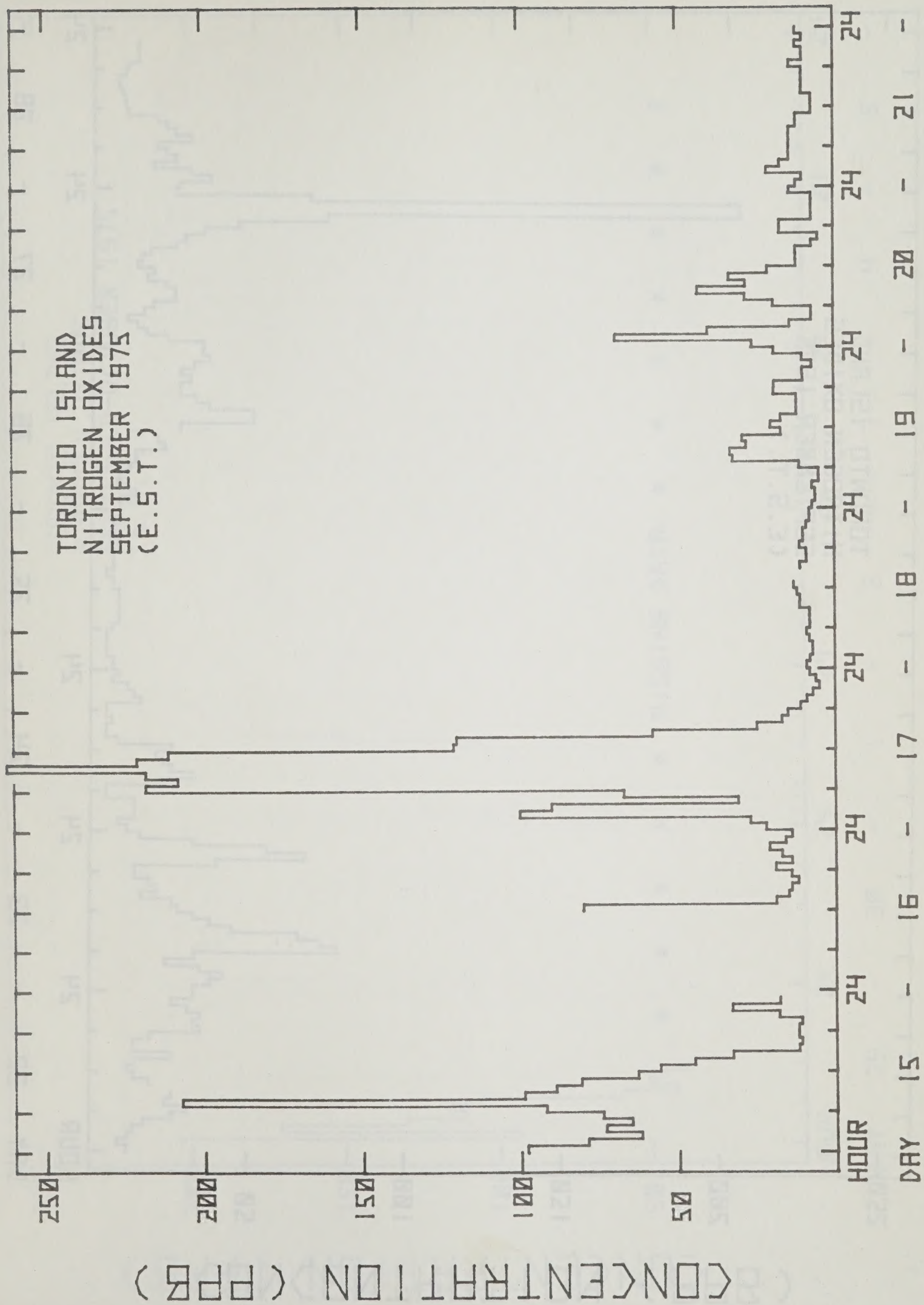


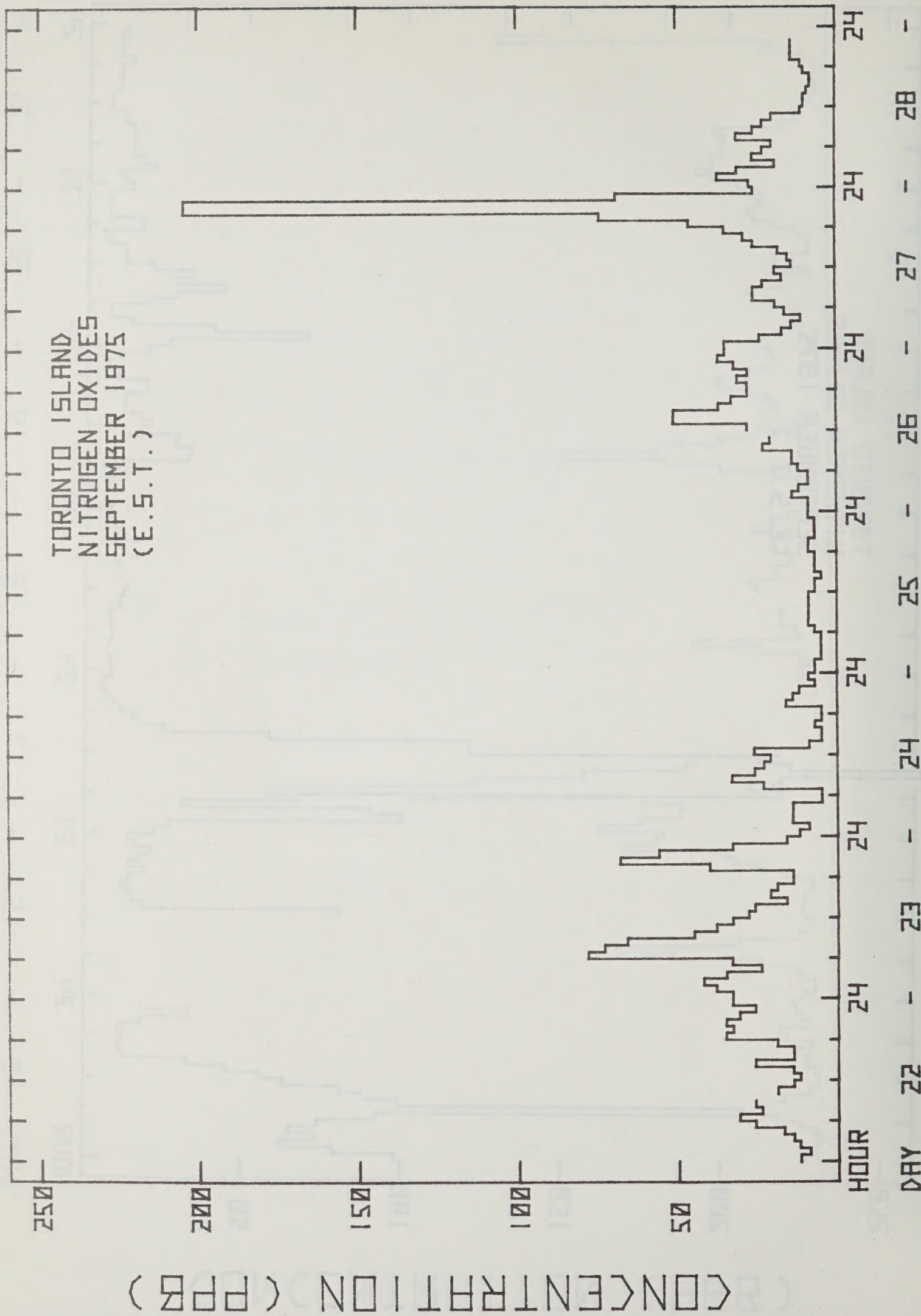
CONCENTRATION (PPB)

CONCENTRATION (PPB)

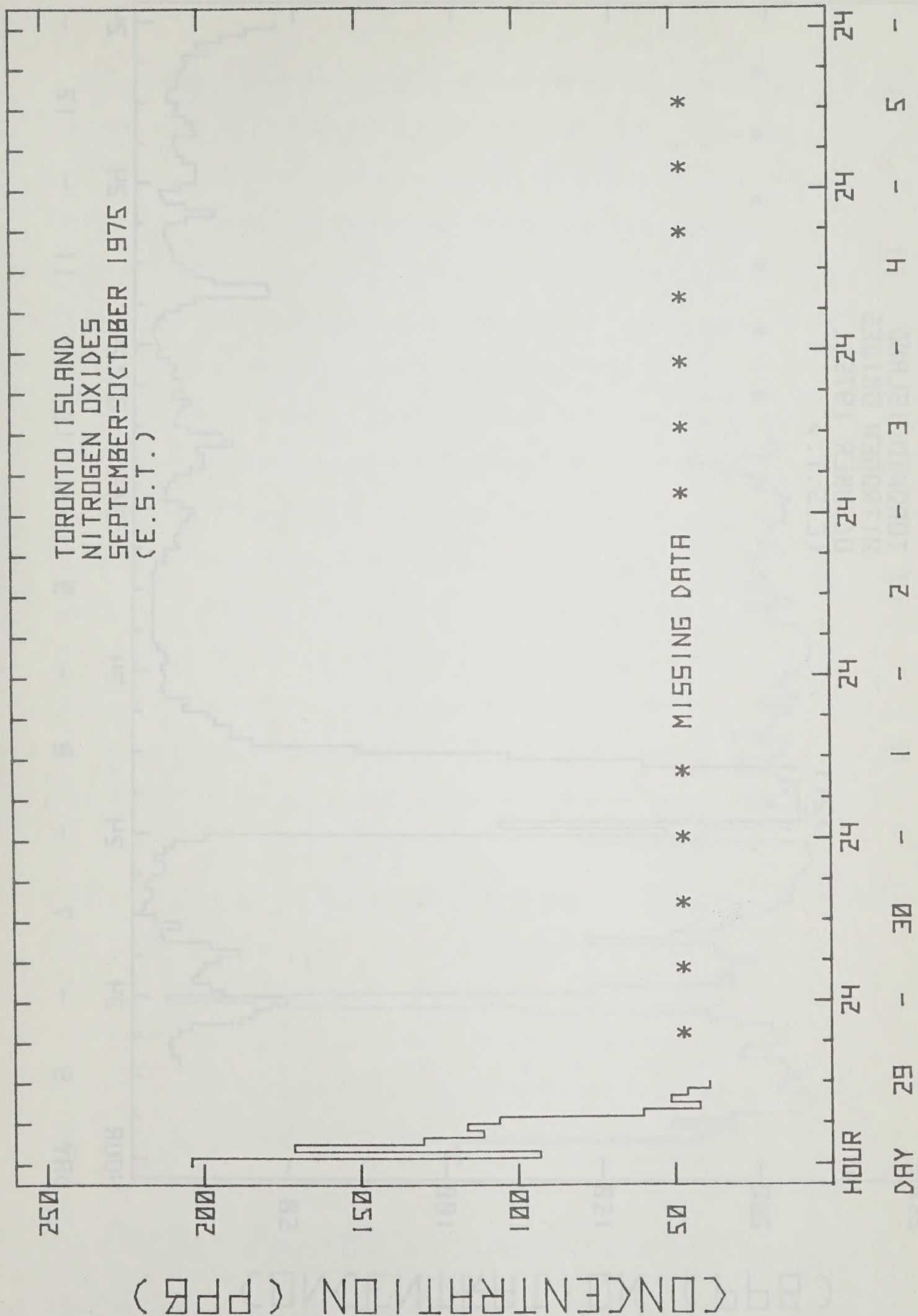
TORONTO ISLAND
NITROGEN OXIDES
SEPTEMBER 1975
(E.S.T.)







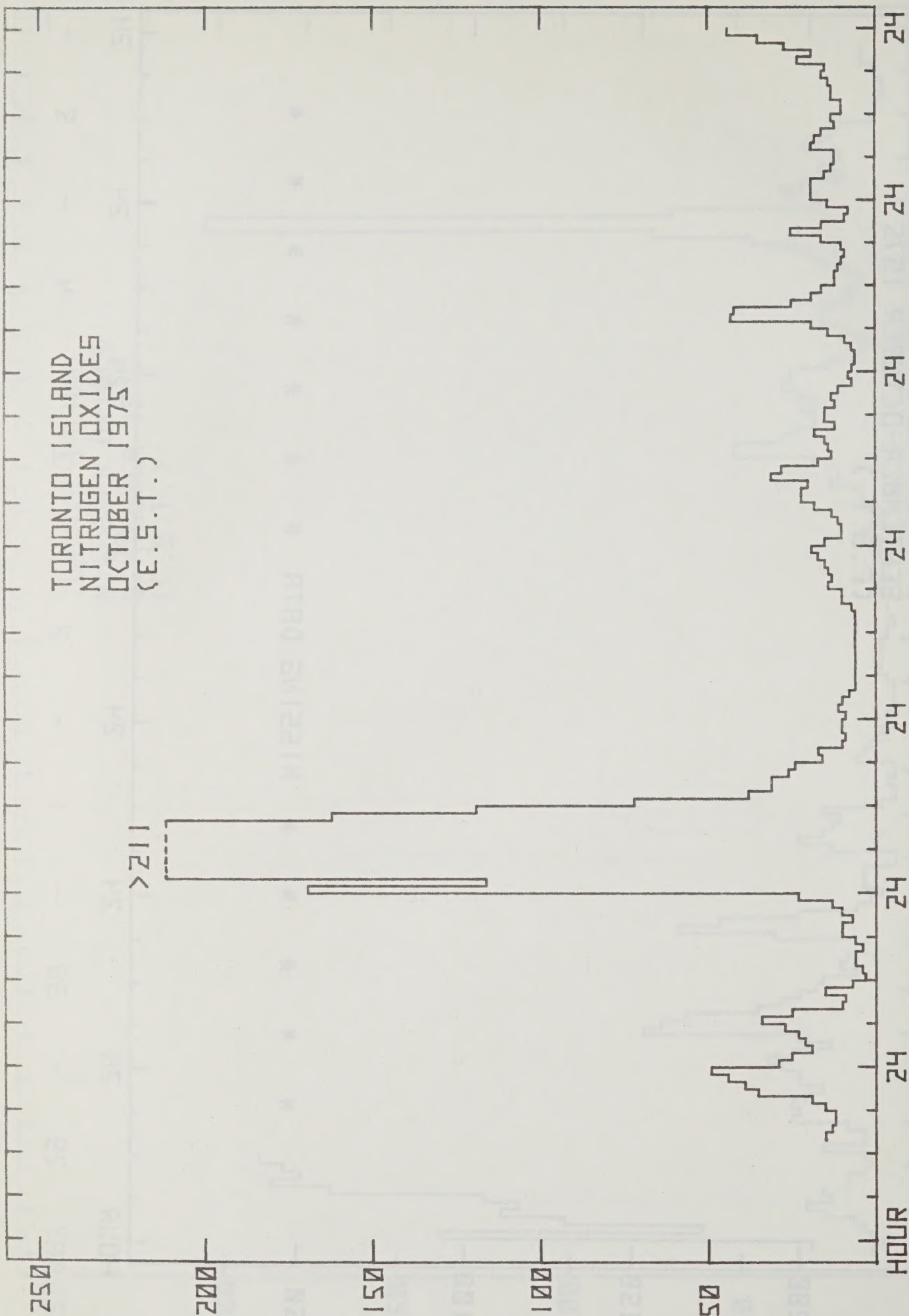
TORONTO ISLAND
NITROGEN OXIDES
SEPTEMBER-OCTOBER 1975
(E.S.T.)

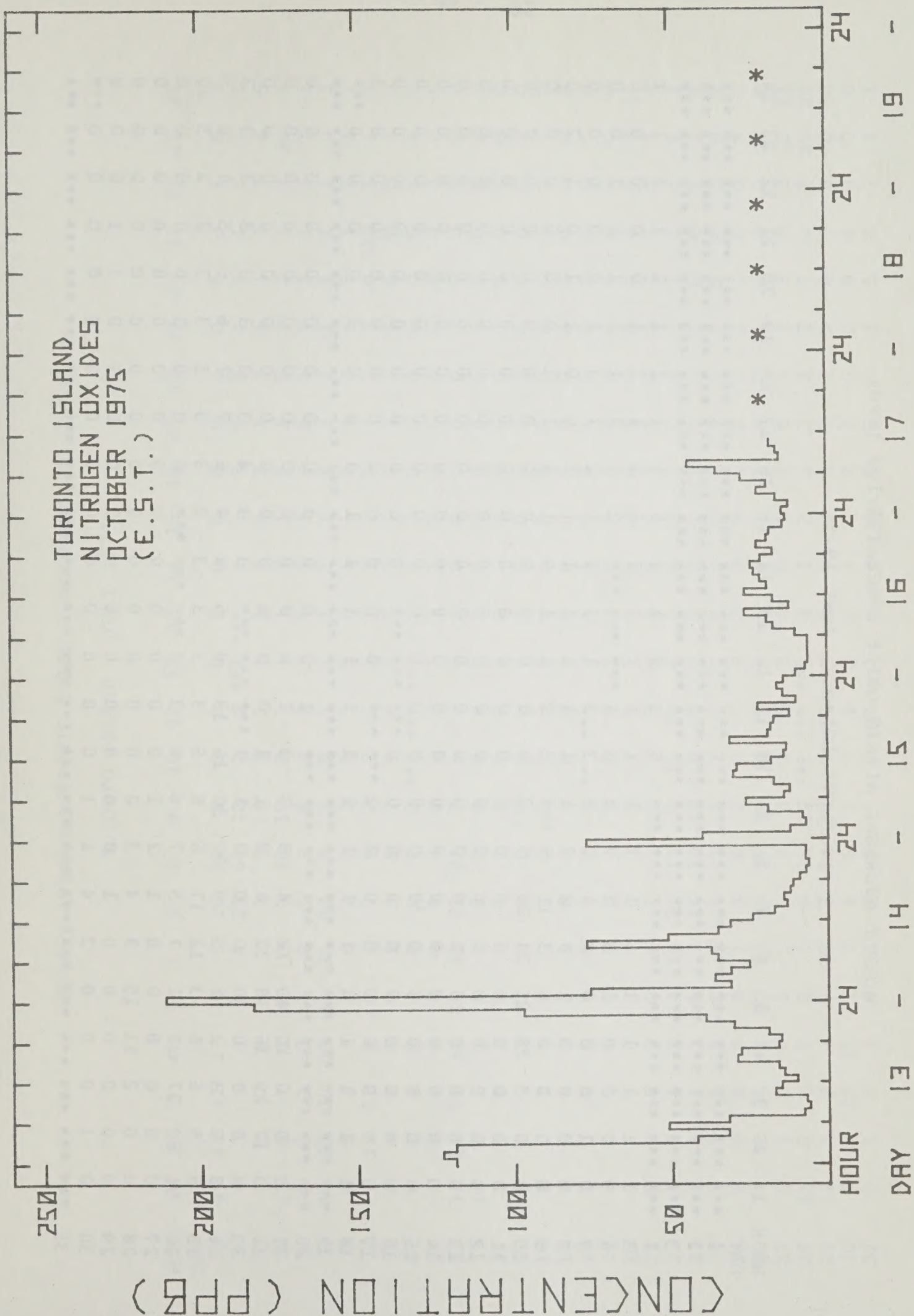


CONCENTRATION (PPB)

TORONTO ISLAND
NITROGEN OXIDES
OCTOBER 1975
(E.S.T.)

>211





HOURLY-AVERAGED NITRIC OXIDE CONCENTRATION (PPB)

TORONTO ISLAND , AUGUST 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	8	9	0	1	20	13	5	8	11	5	3	1	1	1	1	1	1	1	1	1	1	1	3
2	3	3	2	1	3	8	2	3	3	2	1	1	1	1	1	1	1	1	1	13	1	1	1	1
3	15	19	1	1	1	1	1	2	4	2	1	1	3	1	1	1	1	1	1	1	1	1	1	1
4	1	1	12	24	4	2	2	3	3	3	2	2	1	***	***	***	0	0	0	0	0	9	11	4
5	9	2	1	0	0	0	5	6	6	6	6	5	5	3	2	2	4	4	3	2	2	3	1	1
6	1	1	3	1	1	2	9	3	***	***	***	***	1	1	1	1	1	1	1	1	1	1	1	2
7	2	2	2	2	2	2	3	5	5	***	***	3	***	***	0	0	0	0	0	0	0	43	110	137
8	147	86	25	6	17	22	79	112	93	44	32	11	3	1	1	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	2	3	4	3	2	1	0	0	0	1	1	0	0	1	1	0	0	0
10	0	0	1	1	1	0	1	1	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	11	47	71	47	20	6	1	1	0	0	0	0	0	0	0	0	0	0	0
12	34	6	0	0	4	11	12	1	7	14	17	20	1	2	7	0	4	1	0	0	0	0	0	0
13	0	1	9	11	8	21	18	16	9	14	17	1	1	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	11	136	100	100	***	***	4	19	19	19	19	15	20	0	22	29	38	37	27
15	23	21	21	29	23	42	136	100	100	***	***	20	3	2	2	2	19	1	0	0	0	0	0	0
16	1	16	22	5	0	0	2	5	2	4	2	1	0	0	0	0	1	1	0	0	0	0	0	0
17	0	0	0	0	18	17	10	3	1	2	5	5	2	1	1	1	0	0	0	0	0	0	0	0
18	0	0	0	0	0	1	12	***	11	4	5	16	2	4	5	4	2	2	1	0	0	0	0	0
19	0	1	1	11	13	14	64	81	71	12	4	5	4	4	7	3	9	5	2	2	2	1	4	3
20	8	5	2	0	2	6	22	33	19	10	9	6	5	5	2	2	0	0	0	0	3	25	11	15
21	33	32	62	59	78	130	176	90	23	***	***	20	16	4	4	2	2	2	1	1	1	1	1	41
22	1	1	1	1	1	1	9	13	8	7	8	7	8	5	7	1	2	1	1	1	1	2	162	145
23	124	144	177	190	94	116	14	6	5	6	3	2	1	2	1	1	1	1	1	1	1	0	1	1
24	3	14	23	11	1	4	9	24	41	21	17	9	6	3	2	2	2	2	1	1	1	1	1	1
25	1	2	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	1	***	***	2	2	2	5	11	30	20	10	1	0	0	0	0	0
27	1	0	0	0	1	8	24	21	12	6	6	3	4	3	2	2	1	2	1	0	0	70	18	11
28	127	112	99	72	39	63	112	130	74	21	18	12	6	1	1	2	1	2	1	1	12	32	74	108
29	0	0	0	0	0	0	1	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (P_{PB})

TORONTO ISLAND , JUNE 1975

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY																								
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
4	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
5	0	1	1	0	0	0	0	0	0	4	6	3	3	1	1	2	2	2	1	0	2	4	4	4
6	3	3	5	6	10	13	9	6	6	4	0	1	1	5	1	1	1	1	1	2	2	2	1	2
7	5	2	3	3	1	0	0	1	1	0	0	1	0	***	2	0	1	1	2	2	3	2	3	3
8	3	5	4	4	2	2	2	6	***	3	3	0	1	0	1	1	1	1	2	4	5	6	9	7
9	5	4	17	14	15	7	18	11	4	5	5	6	1	2	3	1	1	0	0	0	0	0	0	0
10	0	1	2	2	5	6	7	11	6	6	6	4	6	4	2	2	2	0	0	0	0	0	0	0
11	0	1	1	1	1	1	1	6	3	3	3	3	2	3	2	1	1	2	1	2	0	0	0	0
12	1	1	1	1	1	1	1	2	4	5	4	5	3	2	2	1	1	4	5	4	4	2	1	2
13	1	1	1	0	1	2	2	5	3	4	2	3	5	4	11	2	3	2	1	1	1	2	3	1
14	1	1	1	0	1	1	2	3	3	3	3	1	3	2	2	2	2	1	1	1	1	1	1	1
15	1	2	4	5	2	2	2	2	4	4	3	1	1	1	2	1	1	1	1	4	6	3	1	2
16	1	0	0	0	2	2	3	4	6	6	***	***	***	1	1	1	1	1	1	1	1	0	1	0
17	0	0	0	0	0	0	3	6	4	3	1	2	1	4	1	3	4	6	***	***	***	***	***	***
18	0	0	0	1	1	1	1	4	4	3	1	***	1	1	1	1	1	1	6	8	9	6	3	3
19	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
20	***	***	***	***	***	***	***	***	***	***	2	2	2	0	0	0	0	1	1	0	0	0	0	2
21	7	10	8	13	18	13	8	6	6	5	4	2	1	2	1	0	1	1	2	2	0	0	0	0
22	13	27	28	26	26	28	17	8	4	4	3	3	4	5	7	3	3	3	2	2	2	2	1	2
23	3	2	1	1	1	1	2	4	4	7	***	***	***	7	16	21	7	4	5	11	18	16	13	15
24	21	21	24	21	20	22	36	55	53	38	32	24	21	17	16	3	22	23	26	24	31	27	34	24
25	23	25	25	21	20	24	21	6	10	8	3	3	3	***	4	3	3	2	3	3	2	2	34	52
26	50	48	46	44	40	26	13	13	9	6	5	1	***	1	***	1	1	1	0	0	0	1	1	1
27	1	2	3	3	4	3	4	6	1	1	1	1	1	1	2	3	3	2	2	1	1	1	5	5
28	3	7	19	28	26	22	22	19	7	4	4	3	3	3	2	3	3	3	3	2	1	1	1	1
29	0	2	8	5	4	6	7	2	2	2	2	1	1	1	2	2	2	3	3	2	2	2	11	6
30	4	3	2	4	11	14	10	3	2	2	1	1	1	1	1	1	2	2	1	1	0	1	4	***
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (PPB)

TORONTO ISLAND , JULY 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	27	26	24	23	22	19	22	27	3	3	2	2	2	2	1	1	1	2	2	2	1	0	2	5	25
2	18	22	25	22	13	17	21	30	26	13	10	***	***	2	3	7	12	13	6	5	3	4	5	6	
3	5	4	6	3	3	7	10	17	15	13	7	1	1	0	0	0	0	0	0	0	6	16	8	13	
4	13	6	3	2	4	7	8	14	17	7	3	2	2	2	2	2	4	6	7	8	13	13	13	12	
5	11	10	11	12	8	6	8	10	10	7	5	4	3	2	3	5	3	2	1	1	2	2	5	9	
6	16	18	20	20	17	19	23	18	12	9	6	3	1	2	2	2	1	1	1	0	0	0	0	0	
7	2	6	6	4	5	16	13	6	7	5	3	2	3	2	2	2	2	1	1	1	0	0	0	0	
8	0	25	30	22	12	14	21	18	10	10	10	5	4	4	3	3	3	4	8	12	18	8	10	7	
9	4	4	2	2	2	5	9	10	10	11	9	6	13	8	4	2	3	3	2	3	7	8	4	6	
10	3	3	3	3	3	4	12	18	5	***	***	***	0	2	2	1	1	1	2	1	9	25	24	9	
11	6	4	3	2	4	8	16	16	11	6	3	2	3	2	1	2	2	1	1	1	2	4	11	18	
12	17	16	17	17	16	16	19	25	11	9	6	3	2	1	1	1	1	1	1	1	0	0	0	9	
13	26	10	10	14	5	1	1	2	1	1	2	2	3	3	2	2	2	1	1	1	0	0	2	2	
14	1	3	2	1	0	1	3	5	4	2	3	2	2	2	2	2	2	2	4	4	3	4	4	4	
15	5	6	5	4	3	5	9	14	14	14	15	9	4	2	1	2	2	1	2	3	2	1	2	3	
16	3	10	14	20	23	25	18	17	12	10	9	5	5	6	6	6	5	5	4	4	3	4	3	3	
17	5	8	7	8	8	7	5	6	7	7	5	4	3	3	3	3	3	5	5	2	3	7	7	7	
18	6	5	4	4	6	8	10	7	6	***	***	5	6	6	6	6	8	7	8	8	8	7	7	7	
19	7	6	7	6	6	5	6	6	6	6	7	6	11	8	6	6	7	8	8	7	8	10	10	8	
20	8	8	8	7	6	6	6	5	6	6	7	6	7	7	6	8	10	7	7	7	8	11	18	21	
21	12	11	7	7	8	7	8	9	10	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
22	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
23	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
24	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
26	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
27	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
28	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	
29	31	27	26	23	26	24	18	18	19	15	22	19	4	4	1	3	7	7	7	17	26	30	32	30	
30	39	44	43	42	36	30	25	21	18	21	20	15	14	13	11	8	7	8	13	16	19	29	29	30	
31	32	47	47	46	34	21	17	21	31	24	27	13	15	24	16	14	13	15	16	19	16	20	56	35	

HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (PPB)

TORONTO ISLAND , AUGUST 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	44	59	37	15	59	80	62	35	40	48	42	26	20	14	10	8	6	6	8	10	7	9	21	56
2	65	61	52	43	49	43	23	21	17	16	14	11	6	6	5	11	5	5	11	38	17	15	18	39
3	84	78	20	14	15	12	14	15	32	14	9	11	12	12	8	7	6	4	4	6	6	5	5	8
4	11	18	53	58	38	20	12	17	21	29	22	15	10	***	***	***	***	***	***	***	***	***	***	***
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	6	37	29	79	83	41	27	77	28	14	6	1	4	4	3	4	8	6	68	128	94	68
9	15	12	12	14	9	10	15	18	14	8	7	5	4	4	5	2	2	5	7	15	8	19	12	13
10	15	15	11	10	5	8	17	16	11	6	6	5	10	4	4	4	5	6	6	4	7	4	5	8
11	6	5	2	1	2	2	1	4	6	11	12	18	10	8	9	7	9	10	4	7	10	17	15	11
12	32	54	20	25	23	26	6	42	61	55	28	26	25	12	9	6	2	10	7	11	16	24	38	37
13	9	8	4	30	43	27	38	57	15	26	30	9	7	4	7	35	10	24	28	15	12	12	10	9
14	***	***	***	***	***	***	***	***	32	14	***	***	***	***	***	***	***	***	7	6	11	***	***	***
15	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
16	19	38	40	30	12	10	17	20	9	9	8	7	12	9	8	7	5	2	1	2	1	4	4	6
17	4	8	9	8	34	62	49	37	15	20	27	26	5	5	4	4	5	4	5	5	5	4	4	4
18	11	13	8	11	11	11	17	***	12	9	9	0	24	12	10	9	9	10	13	21	36	31	23	15
19	25	25	27	23	25	25	30	36	12	21	10	9	5	7	6	5	5	7	8	6	20	26	34	22
20	30	27	21	20	23	29	26	26	23	37	15	21	8	8	14	9	16	16	17	19	19	27	35	34
21	37	31	29	31	28	35	46	70	36	***	***	29	19	12	3	1	3	4	8	16	30	51	45	40
22	13	13	15	16	9	15	33	25	11	11	10	8	11	9	15	9	15	21	21	10	17	13	13	16
23	58	50	44	43	48	36	23	9	8	6	5	3	3	1	11	5	3	1	3	4	6	18	44	49
24	***	***	***	47	31	8	13	12	25	52	39	42	28	21	2	1	2	1	3	13	10	3	2	2
25	26	32	28	9	4	1	4	3	5	5	5	4	1	1	4	10	8	6	11	11	6	4	4	9
26	11	18	11	7	10	4	5	8	9	11	9	11	16	24	33	6	42	31	7	5	6	8	7	10
27	33	18	18	22	24	29	31	27	20	10	10	8	7	7	7	46	8	31	23	21	41	58	44	40
28	49	46	41	38	35	41	49	60	84	52	69	59	36	10	4	8	8	13	17	32	43	45	49	49
29	6	15	18	11	9	17	21	17	15	13	12	8	7	7	4	5	7	3	5	4	3	2	2	2
30	20	19	6	4	3	3	6	7	5	4	4	3	3	2	8	9	7	7	15	47	49	32	26	13
31	14	0	3	1	1	1	1	1	0	0	0	1	1	2	1	2	1	1	1	1	1	1	0	0

HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (PPB)

TORONTO ISLAND , SEPTEMBER 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	0	1	2	3	2	1	1	1	1	1	2	1	2	3	3	5	8	6	4	2	1	1	3	7
2	4	4	12	12	8	4	6	17	32	17	14	9	10	7	8	11	9	9	12	16	22	25	28	29
3	30	29	27	21	21	21	26	23	25	29	***	***	21	27	17	17	11	10	8	6	5	17	31	19
4	32	40	33	31	28	33	30	33	18	13	12	8	9	7	11	7	8	9	24	28	33	39	39	36
5	26	32	25	19	16	21	30	48	52	35	12	21	12	9	6	7	9	47	65	61	49	23	12	12
6	12	9	6	5	13	33	24	17	10	7	4	4	5	4	6	5	7	10	14	28	30	22	21	19
7	20	16	19	13	9	11	9	2	1	2	2	1	1	2	2	2	3	2	3	2	2	10	25	5
8	10	9	6	4	6	11	17	18	18	12	6	4	4	5	6	6	9	6	14	16	8	10	11	13
9	9	9	6	10	12	18	21	24	15	7	5	4	6	6	6	6	5	5	14	22	28	27	32	29
10	29	30	27	26	24	25	32	44	42	42	31	28	12	23	15	2	12	12	17	6	7	5	10	9
11	10	7	10	21	34	10	10	14	13	13	***	***	6	11	12	17	14	19	26	17	22	18	17	13
12	8	5	4	4	7	17	24	27	31	22	17	12	13	11	5	5	5	9	17	23	23	21	20	21
13	22	20	15	12	24	23	20	17	18	9	7	6	6	4	3	3	4	4	4	8	21	14	38	38
14	24	26	26	25	33	36	32	53	40	39	38	36	34	30	25	10	10	12	12	11	17	32	18	**
15	38	36	33	34	33	***	***	***	***	***	***	***	43	18	14	13	11	13	19	13	17	21	16	13
16	**	**	***	***	***	***	60	59	92	143	154	136	95	96	50	23	17	15	11	9	7	5	6	8
17	22	25	53	42	25	39	8	7	8	10	10	11	13	***	***	10	9	8	10	10	10	9	8	8
18	9	8	7	7	8	9	10	25	25	21	21	14	16	14	***	10	11	18	19	9	9	6	9	18
19	7	6	6	14	6	12	18	20	29	14	25	11	16	10	10	5	3	16	16	6	7	7	7	13
20	25	61	26	16	13	12	11	9	9	7	10	5	5	5	9	9	9	9	13	***	***	***	***	***
21	12	10	21	***	***	***	***	***	***	***	***	***	***	21	16	6	11	14	27	24	32	24	24	31
22	***	***	***	***	***	***	42	31	27	22	22	19	***	9	16	6	18	13	14	33	30	28	25	14
23	30	31	27	25	22	28	4	13	19	12	13	11	16	21	14	19	18	13	4	15	14	12	7	8
24	11	8	12	13	13	4	4	8	8	7	7	8	5	7	3	6	6	6	8	8	6	7	7	8
25	6	6	4	4	4	4	6	9	9	15	11	***	15	30	30	26	26	24	25	27	25	28	22	24
26	8	8	13	11	8	8	9	9	9	15	11	***	15	11	17	24	25	33	39	39	64	71	27	19
27	21	20	16	14	11	16	18	20	19	16	15	15	12	11	17	24	25	33	10	13	13	***	***	***
28	20	23	24	18	22	20	14	17	15	13	13	8	7	7	6	7	7	9	***	***	***	***	***	***
29	79	30	36	39	34	39	33	32	21	26	29	29	***	***	***	***	***	***	***	***	***	***	***	***
30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

TORONTO ISLAND, OCTOBER 1975

[illegible]

HOURLY-AVERAGED CARBON MONOXIDE CONCENTRATION (PPHM)

TORONTO ISLAND, JUNE 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	48	31	41	23	23	20	25	33	16	22	20	15	13	15	13	15	11	15	16	21	22	27	35	54
2	34	25	24	24	14	31	55	62	47	54	25	22	14	21	21	20	19	13	16	20	19	17	27	28
3	29	26	27	24	22	20	21	24	27	**	23	23	18	15	18	16	19	15	15	15	15	16	13	21
4	18	76	122	121	99	81	55	63	100	80	68	80	51	46	38	33	25	20	20	22	28	35	30	32
5	31	26	27	26	26	18	18	22	23	19	24	40	27	48	34	29	24	27	23	24	29	29	36	31
6	43	39	46	47	64	70	53	47	49	37	22	20	22	20	28	31	28	26	34	29	32	31	27	28
7	24	33	27	22	16	16	18	22	31	23	29	26	32	22	**	**	**	**	**	**	**	**	**	**
8	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
9	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
10	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
11	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
12	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
13	19	21	19	19	22	21	21	42	32	29	29	30	36	29	35	28	27	33	25	32	32	28	33	32
14	24	23	21	20	22	22	24	30	29	29	32	27	27	27	26	22	20	19	23	22	22	23	25	25
15	25	30	45	47	39	32	34	30	35	29	22	16	17	18	23	17	17	20	25	**	**	**	**	**
16	**	**	**	**	**	**	**	**	**	**	**	**	20	22	17	17	17	17	20	19	20	20	17	17
17	19	17	19	20	17	19	22	42	68	47	29	23	31	31	28	29	23	28	28	23	20	25	23	23
18	30	16	23	23	30	22	25	29	32	31	23	29	31	19	19	22	28	26	37	38	54	49	31	89
19	97	49	38	28	25	23	23	23	29	41	44	44	35	34	28	35	37	31	34	46	48	60	71	58
20	51	41	38	34	22	26	70	75	36	23	23	19	12	12	15	12	12	12	12	15	18	16	21	20
21	34	31	31	52	168	72	35	25	25	23	16	16	13	13	14	19	25	23	20	19	16	15	16	16
22	46	150	167	174	165	74	34	35	26	25	19	26	41	65	63	42	40	42	35	34	25	26	29	38
23	48	41	44	38	35	31	28	41	46	70	73	**	**	**	35	31	25	19	20	43	46	40	37	38
24	44	41	41	35	29	31	**	**	**	**	**	**	**	44	46	49	48	38	51	37	55	55	54	41
25	37	26	22	23	22	32	38	20	27	17	11	11	6	8	8	6	6	6	9	11	13	13	48	167
26	176	91	76	61	46	30	22	20	18	16	15	16	**	17	17	17	17	19	17	23	22	23	23	23
27	28	25	37	41	39	35	32	32	23	23	20	**	**	**	**	**	**	**	**	**	**	**	**	**
28	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
29	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
30	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
31	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**

HOURLY-AVERAGED CARBON MONOXIDE CONCENTRATION (PPHM)

TORONTO ISLAND, JULY 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	209	208	188	168	31	62	87	113	28	20	21	23	21	23	19	19	20	15	17	16	15	19	35	119
2	98	108	114	87	44	77	96	194	164	69	**	34	40	35	26	26	26	26	26	29	34	34	34	37
3	30	20	20	22	24	25	58	72	96	48	26	26	15	13	14	11	10	10	13	15	88	49	60	78
4	59	24	19	18	18	41	83	122	48	23	16	15	11	11	9	17	24	30	29	45	60	111	68	57
5	50	41	36	30	25	30	48	61	40	51	34	24	22	29	25	20	18	15	12	14	13	21	35	46
6	148	149	161	153	126	115	96	55	49	40	31	24	27	29	34	24	19	23	24	24	16	15	14	17
7	28	34	28	25	50	58	46	25	37	30	**	**	**	**	**	**	**	**	**	**	**	**	**	**
8	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
9	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
10	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
11	37	20	14	11	12	24	51	68	53	35	20	18	12	13	15	14	14	18	14	12	10	31	48	87
12	139	229	240	156	175	160	147	150	66	49	35	24	20	19	22	19	14	14	18	18	15	15	17	45
13	149	60	56	56	34	28	27	24	24	27	34	29	40	42	30	36	30	30	29	24	24	24	22	**
14	**	**	**	**	**	**	**	**	**	36	33	29	25	19	14	13	12	19	19	19	22	20	20	24
15	27	32	36	34	20	24	46	42	62	71	90	56	40	15	14	15	12	12	14	19	21	19	20	25
16	33	72	67	79	76	82	68	63	47	46	**	53	39	40	51	44	29	25	21	21	16	16	17	26
17	38	55	59	41	43	31	31	29	29	36	41	45	34	33	26	28	28	25	21	19	25	36	40	37
18	42	42	37	42	43	36	38	30	31	34	29	26	30	34	25	19	19	17	27	30	33	40	33	29
19	26	21	16	16	22	22	23	21	21	19	21	25	39	37	22	24	23	27	28	22	29	26	42	31
20	21	22	23	21	23	21	34	33	32	31	30	21	26	17	19	26	41	22	21	30	23	37	73	82
21	29	19	12	11	12	15	16	27	27	26	26	26	21	13	16	12	16	40	48	40	20	23	28	33
22	30	20	16	13	14	33	32	23	23	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
23	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
24	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
25	21	12	8	8	8	16	19	23	13	10	12	37	34	19	20	26	28	27	29	32	36	35	40	35
26	37	32	31	27	21	29	23	25	15	14	23	33	39	26	21	19	12	12	22	22	23	32	35	33
27	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
28	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
29	42	31	33	20	24	26	14	24	31	24	**	**	**	**	**	**	**	**	8	12	10	**	**	**
30	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
31	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**

HOURLY-AVERAGED CARBON MONOXIDE CONCENTRATION (PPHM)

TORONTO ISLAND , AUGUST 1975

HOURLY DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
4	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
9	201	111	45	32	30	53	126	151	***	***	***	***	***	13	15	13	9	9	9	13	13	132	251	248
10	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
12	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
13	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
14	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
15	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
16	28	63	83	49	23	21	29	44	26	27	26	23	23	23	25	22	16	14	13	13	14	15	17	14
17	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
18	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
19	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
20	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
21	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
22	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
23	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
24	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
26	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
27	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
28	181	144	118	94	64	74	109	182	164	79	87	84	55	16	13	17	15	24	26	50	78	85	131	172
29	19	21	24	21	19	22	25	21	21	22	21	17	17	20	20	21	26	16	19	19	16	13	13	16
30	31	32	19	19	16	16	17	20	16	17	16	16	19	21	16	16	16	15	12	10	10	13	12	21
31	21	10	15	8	8	6	9	10	10	10	10	10	12	13	13	12	10	10	10	12	10	10	10	10

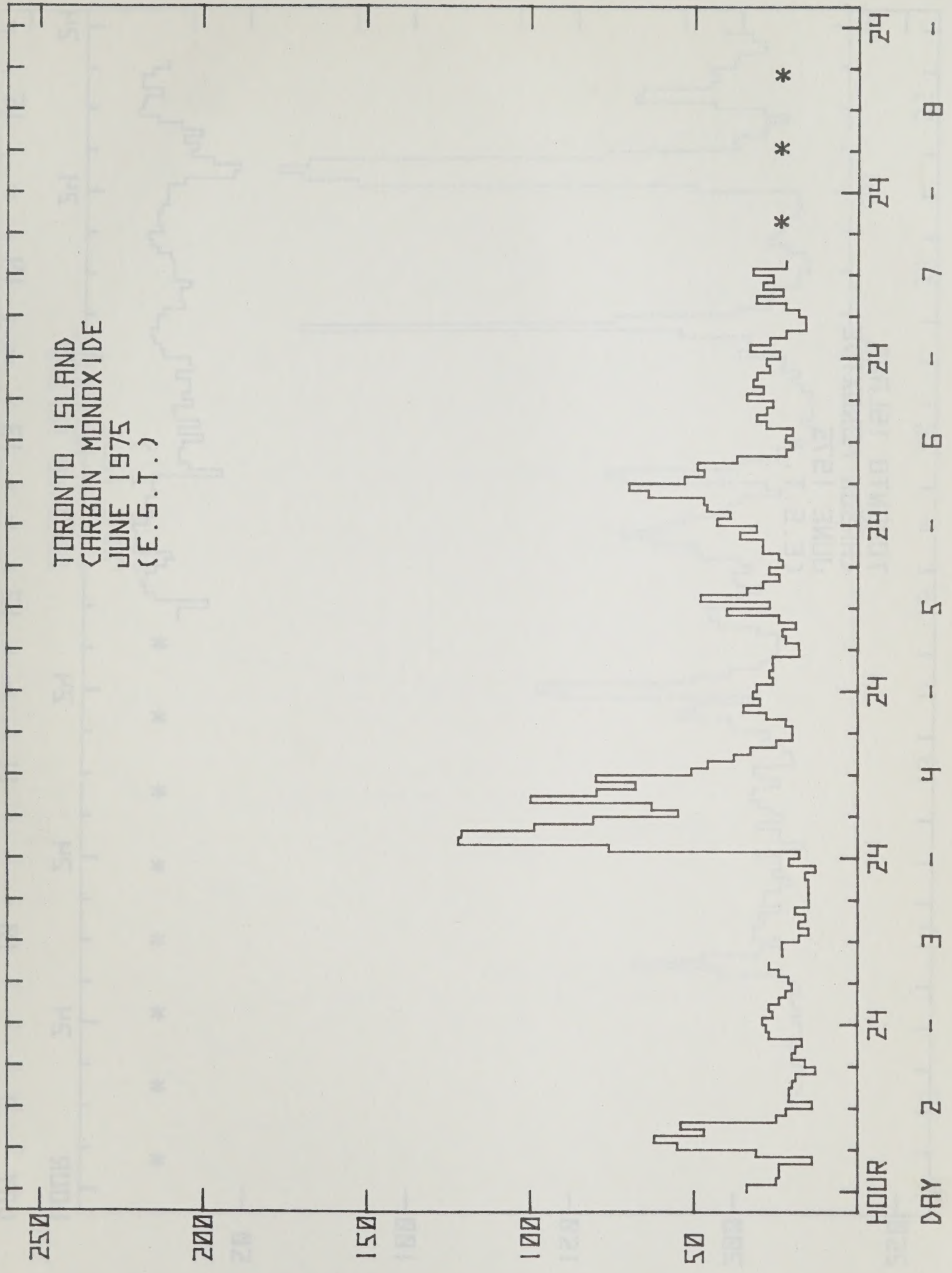
HOURLY-AVERAGED CARBON MONOXIDE CONCENTRATION (PPHM)

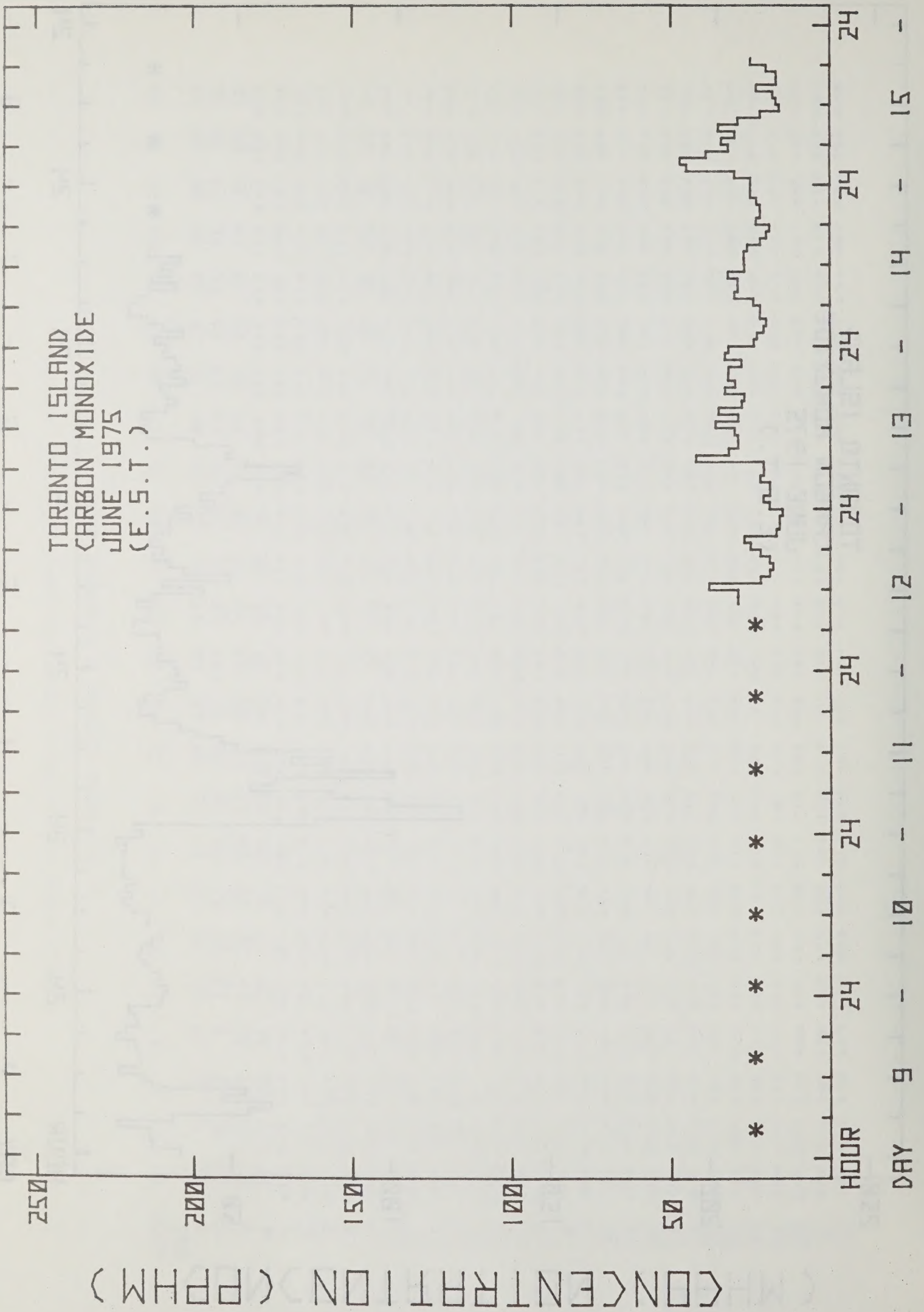
TORONTO ISLAND, SEPTEMBER 1975

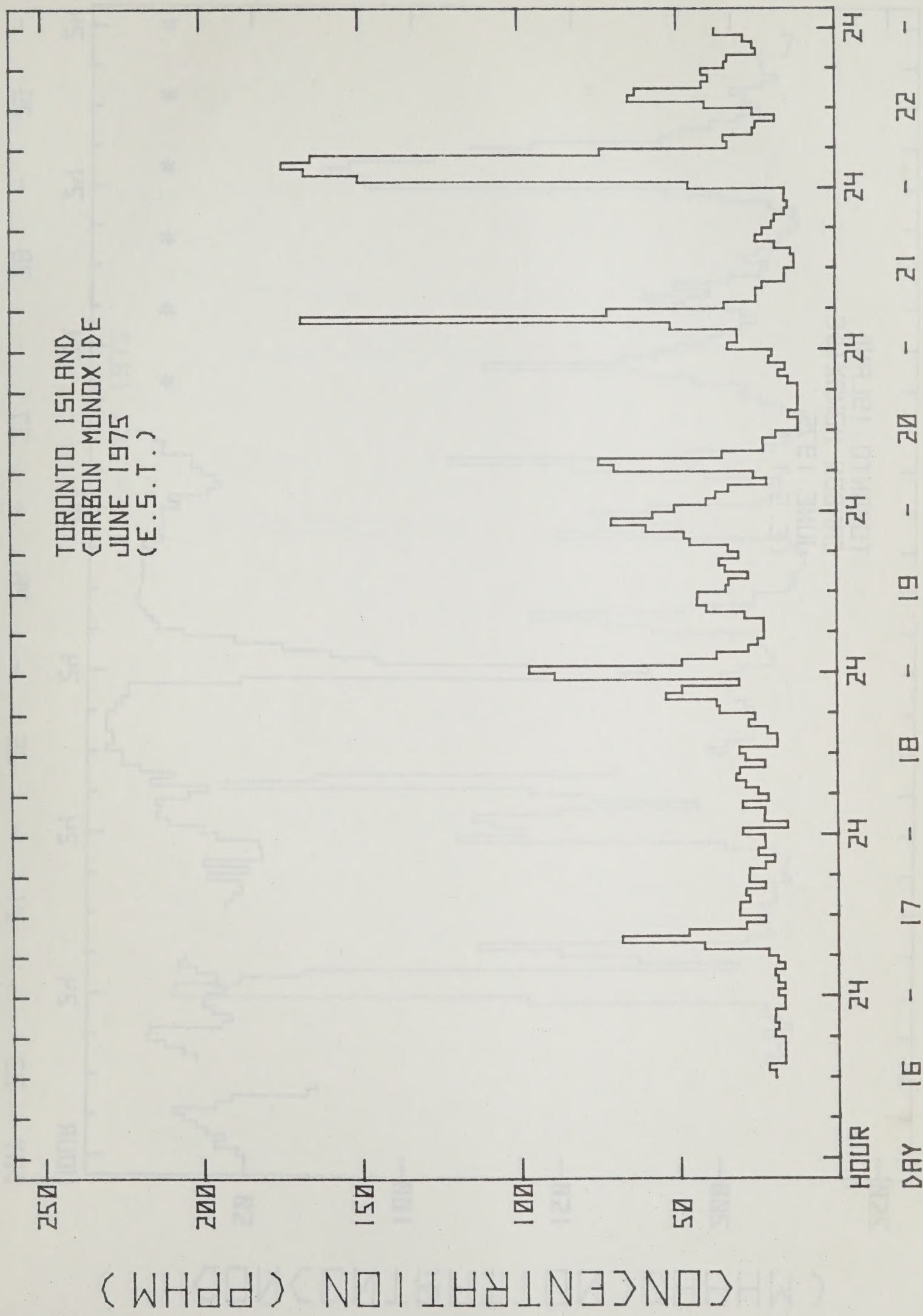
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	10	10	12	16	15	15	12	10	12	10	10	10	13	15	13	16	30	20	16	16	16	16	16	16
2	16	16	26	36	38	35	41	55	77	36	26	20	24	22	19	24	19	19	21	26	34	39	48	53
3	68	71	51	27	26	34	92	66	82	74	***	***	39	36	35	31	21	19	16	10	23	***	32	27
4	44	88	61	44	24	34	40	85	36	21	***	***	***	***	***	***	***	***	***	***	***	***	***	***
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
9	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
10	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
11	***	***	***	***	***	***	***	***	***	11	***	***	36	42	53	48	31	21	19	20	33	49	34	26
12	13	12	10	10	10	25	65	72	87	53	30	19	17	16	24	22	34	43	53	43	26	24	16	20
13	24	16	10	10	10	16	17	34	21	16	16	21	32	20	13	16	16	19	25	29	24	21	25	32
14	42	45	42	41	36	30	32	37	30	20	22	20	13	12	10	15	20	15	10	14	17	51	109	61
15	78	40	40	53	50	70	119	202	115	92	74	53	53	48	30	16	16	19	16	21	28	22	24	25
16	24	26	24	25	29	31	44	56	55	***	***	***	75	30	25	19	20	21	21	21	21	21	25	22
17	48	53	95	76	57	79	265	216	276	299	247	***	***	***	***	***	***	***	***	***	***	***	***	***
18	***	***	***	***	***	***	***	***	***	***	***	***	***	35	31	31	26	31	26	26	26	25	25	25
19	21	21	12	10	10	13	30	57	55	55	47	29	38	36	32	36	30	21	16	***	***	***	***	***
20	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
21	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
22	***	***	***	***	***	***	***	***	***	***	***	***	16	16	17	19	20	22	32	35	34	35	26	31
23	32	36	36	34	34	***	***	***	72	54	36	***	33	32	26	26	***	34	***	47	66	52	29	17
24	10	7	10	***	***	***	***	22	34	20	19	21	21	21	***	***	***	***	10	10	16	10	10	8
25	6	5	***	***	***	***	8	16	12	16	***	10	10	10	10	10	10	10	15	16	16	13	16	***
26	***	***	***	***	***	***	***	***	***	***	***	***	***	62	67	45	42	32	36	34	36	39	46	42
27	32	24	16	12	10	13	19	24	24	21	20	17	19	16	20	22	34	36	66	81	147	103	51	34
28	30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
29	***	***	***	***	***	***	***	***	***	***	***	***	***	78	60	50	44	36	31	26	21	21	26	26
30	27	38	42	38	21	19	16	22	29	36	32	23	22	21	21	19	21	21	24	24	32	31	26	17
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

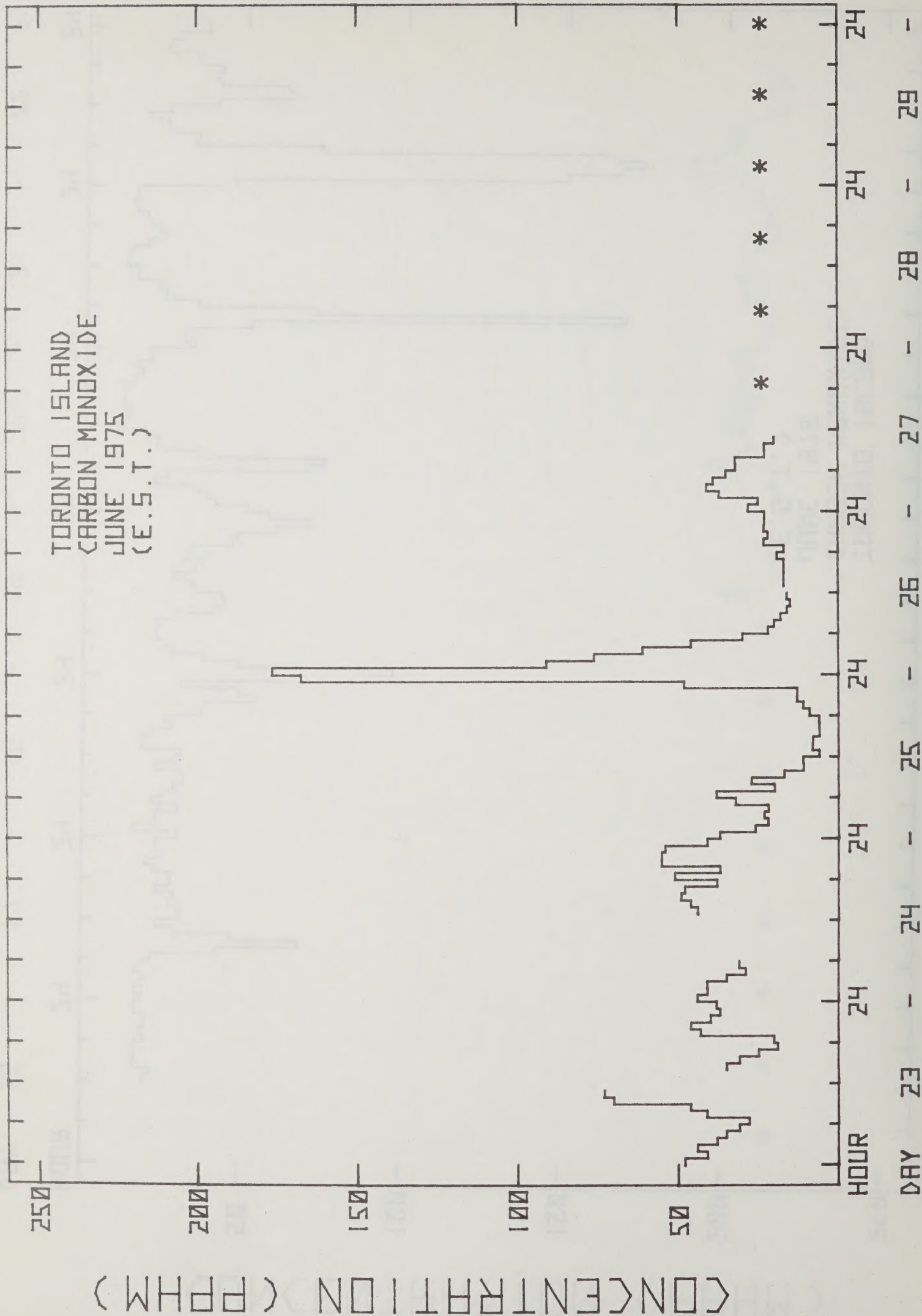
TORONTO ISLAND
CARBON MONOXIDE
JUNE 1975
(E.S.T.)

CONCENTRATION (PPHM)

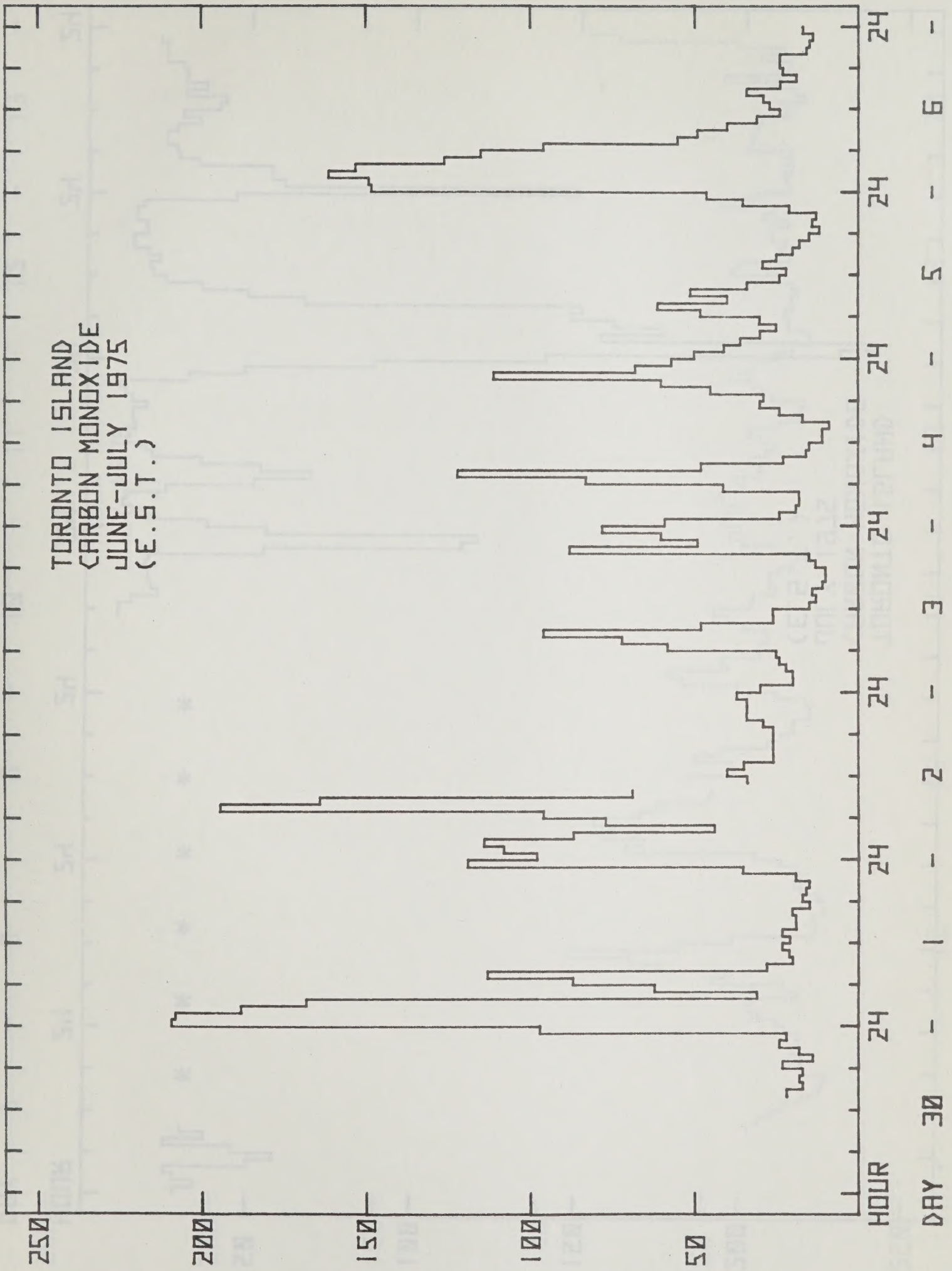


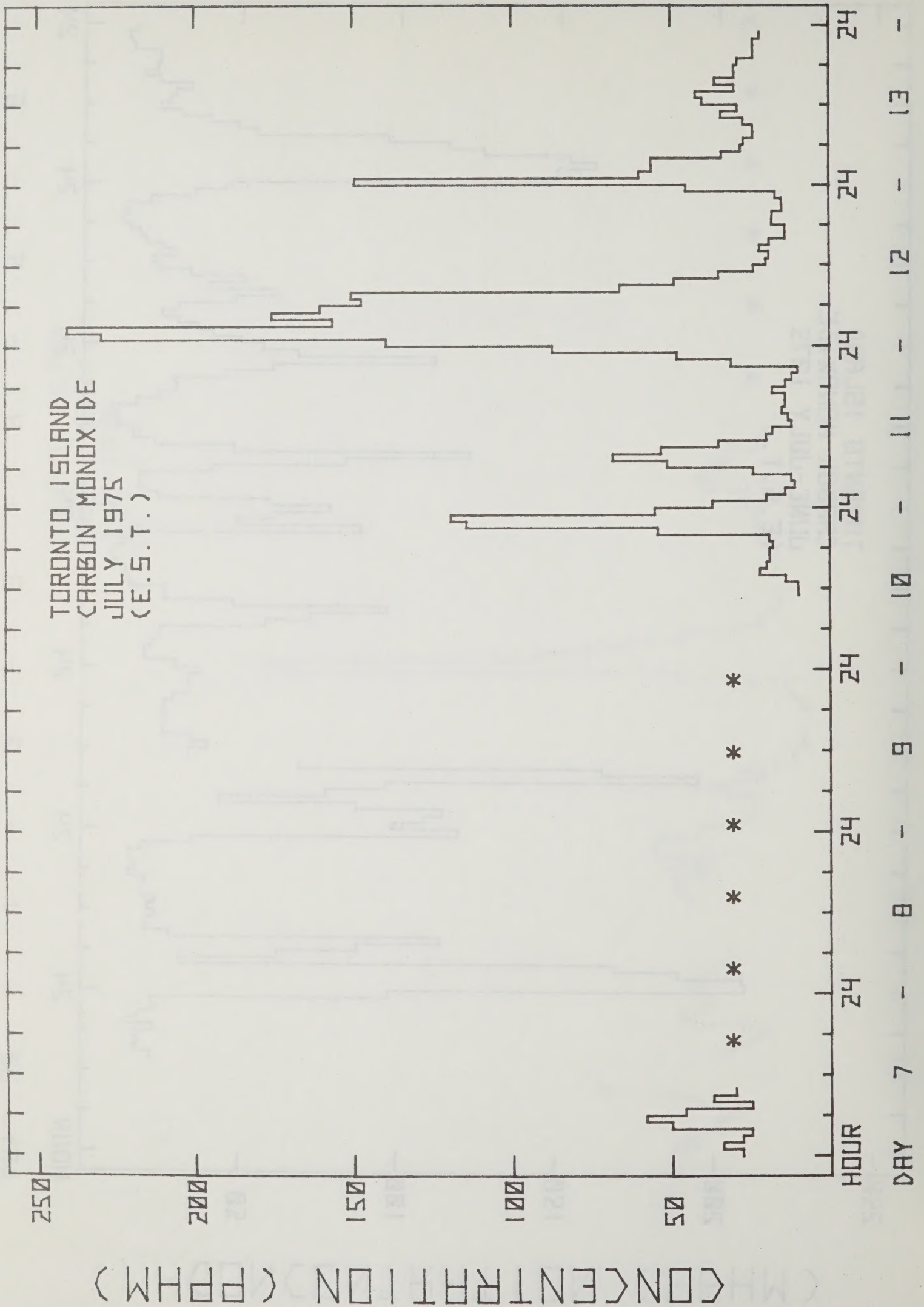




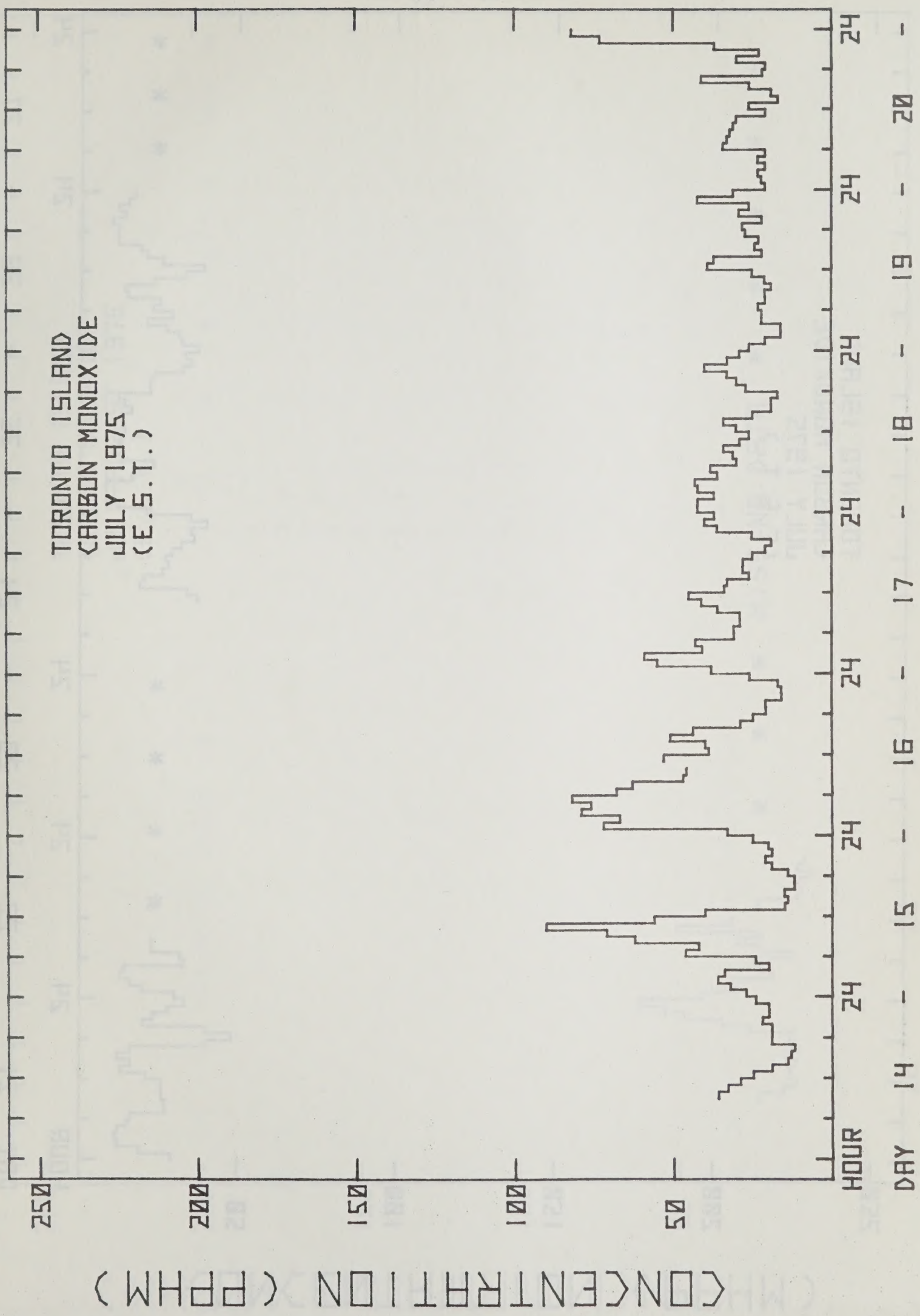


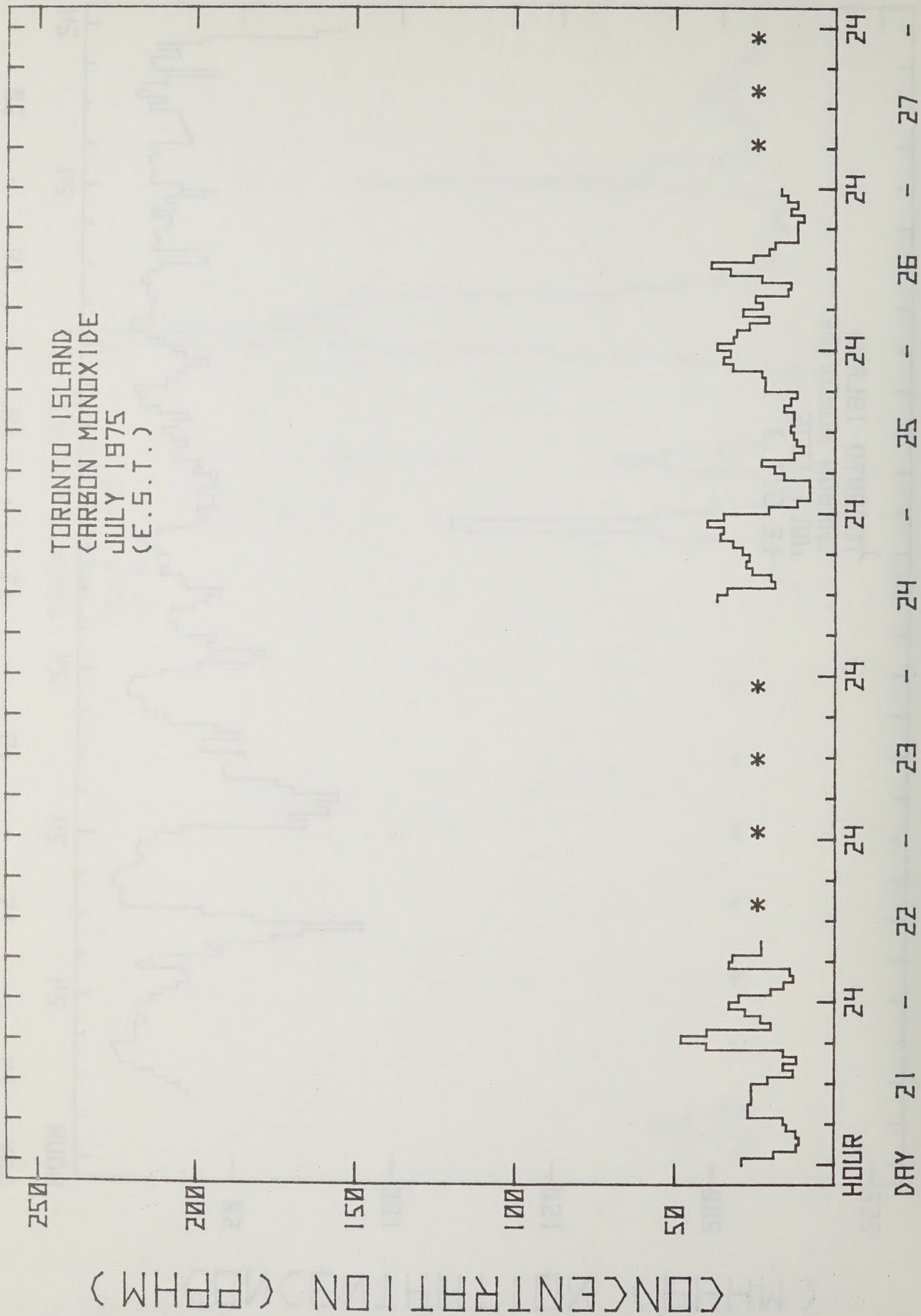
TORONTO ISLAND
CARBON MONOXIDE
JUNE-JULY 1975
(E.S.T.)





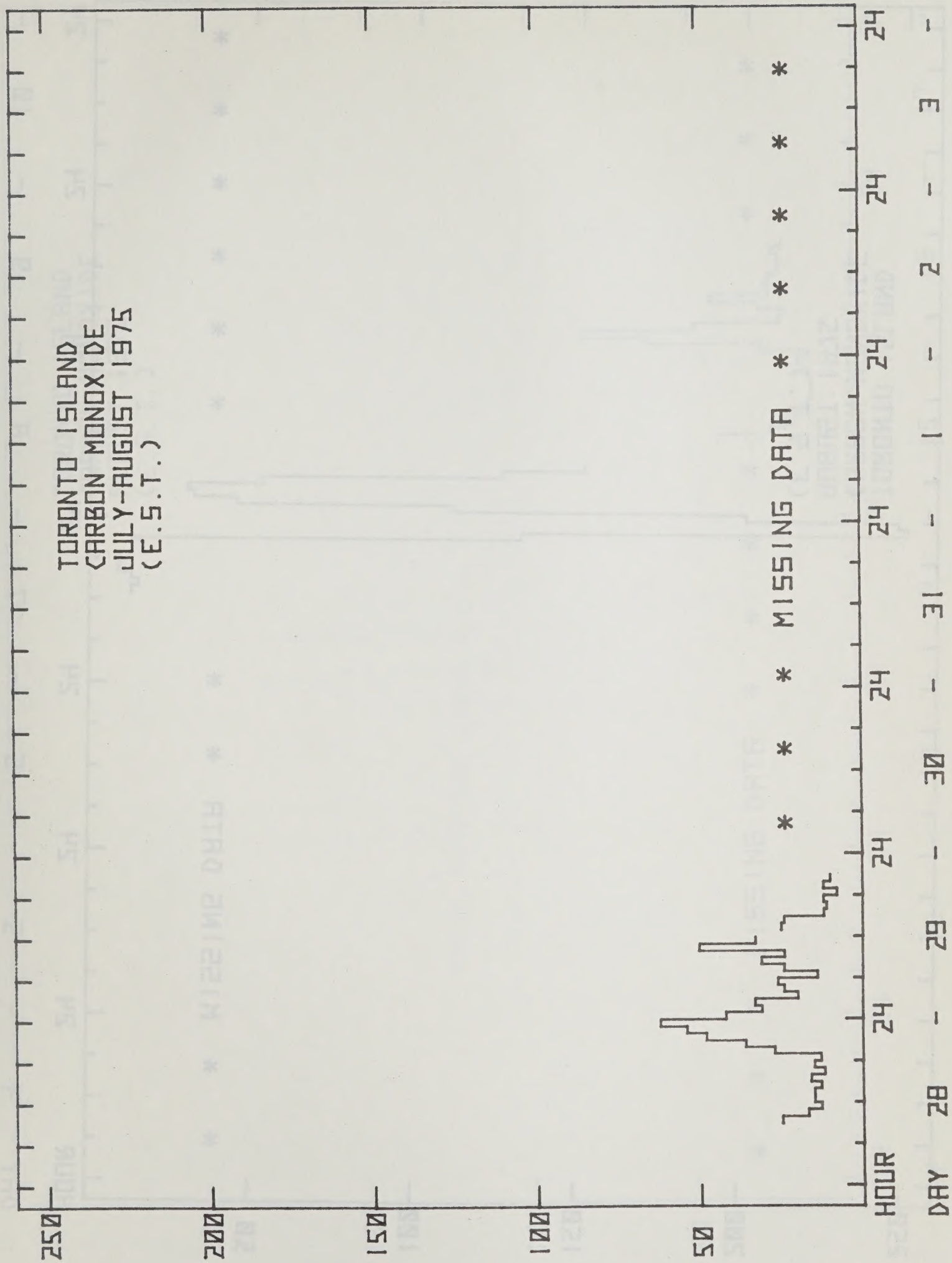
TORONTO ISLAND
CARBON MONOXIDE
JULY 1975
(E.S.T.)

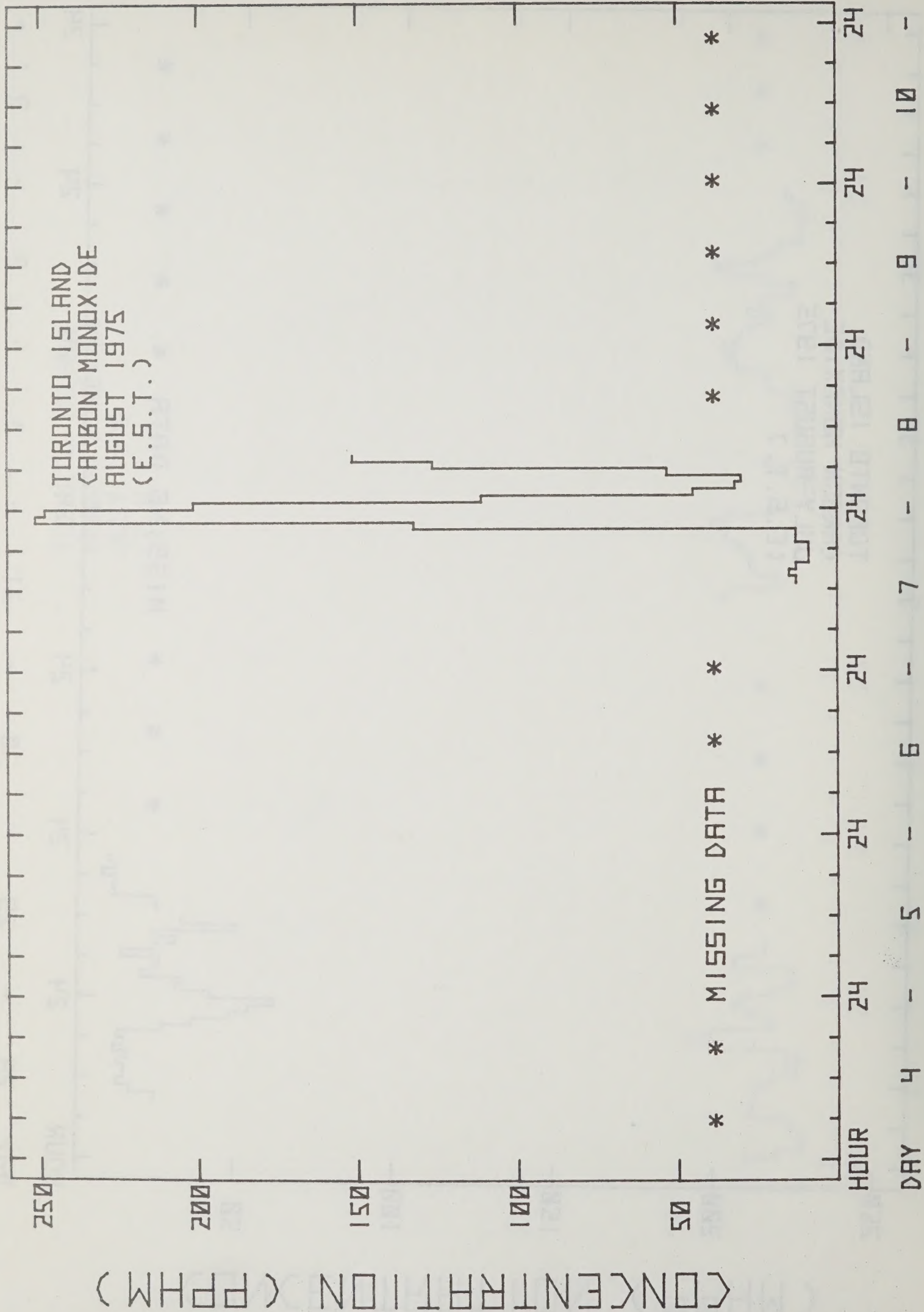




TORONTO ISLAND
CARBON MONOXIDE
JULY-AUGUST 1975
(E.S.T.)

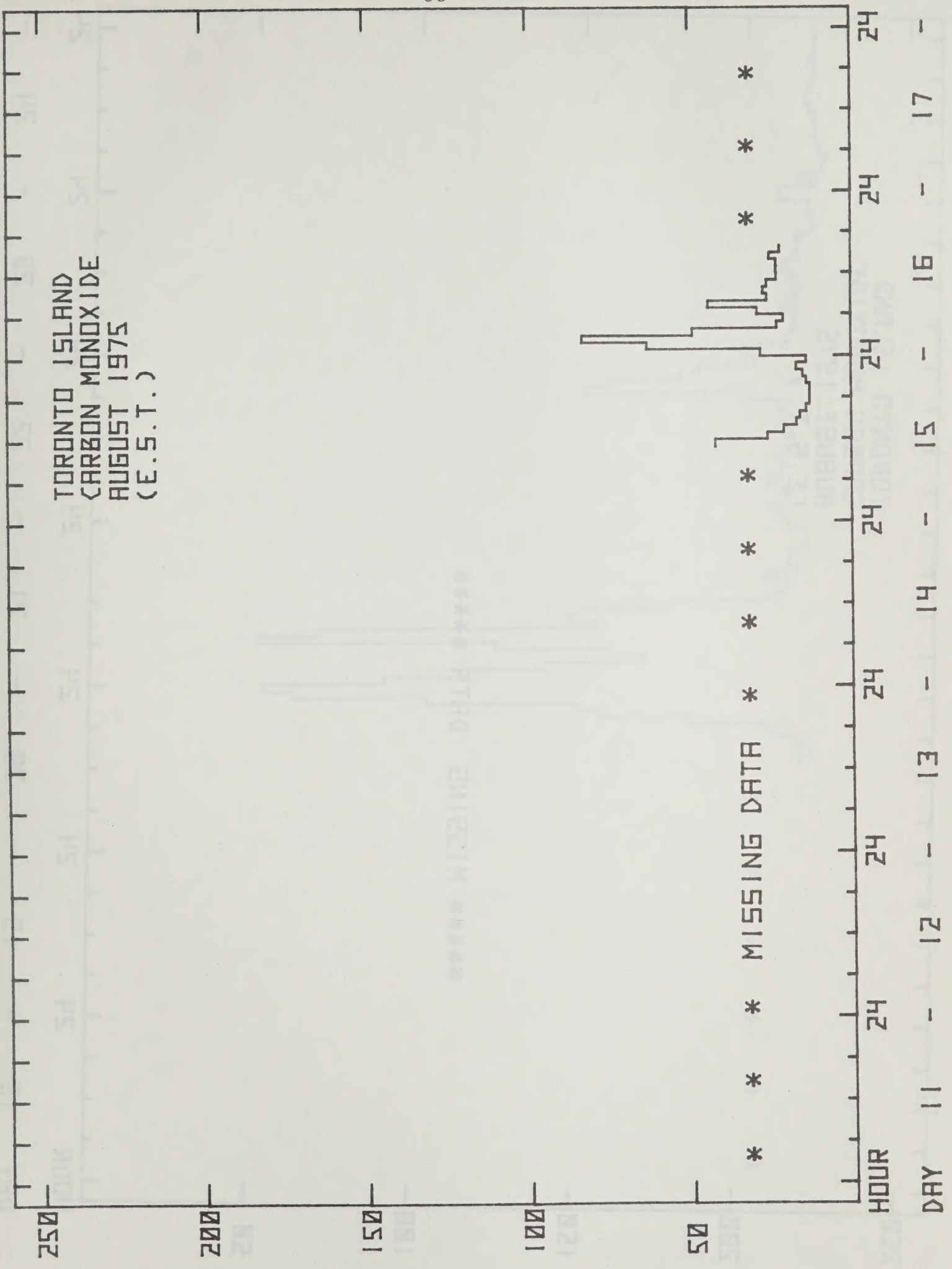
CONCENTRATION (PPHM)





TORONTO ISLAND
CARBON MONOXIDE
AUGUST 1975
(E.S.T.)

CONCENTRATION (PPHM)



CONCENTRATION (PPHM)

TORONTO ISLAND
CARBON MONOXIDE
AUGUST 1975
(E.S.T.)

***** MISSING DATA *****

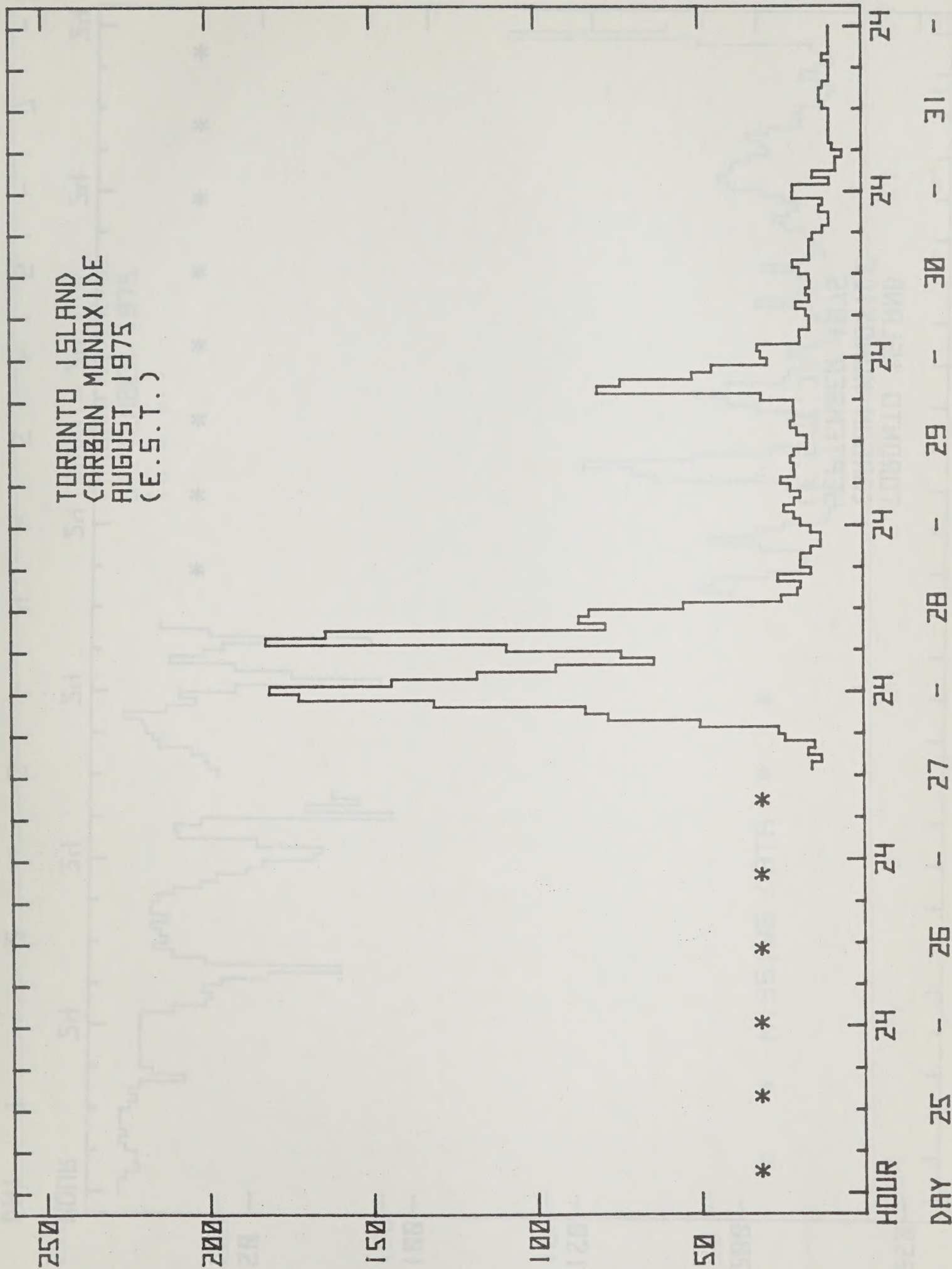
HOUR

DAY

18 - 19 - 20 - 21 - 22 - 23 - 24 - 24 - 24 - 24 -

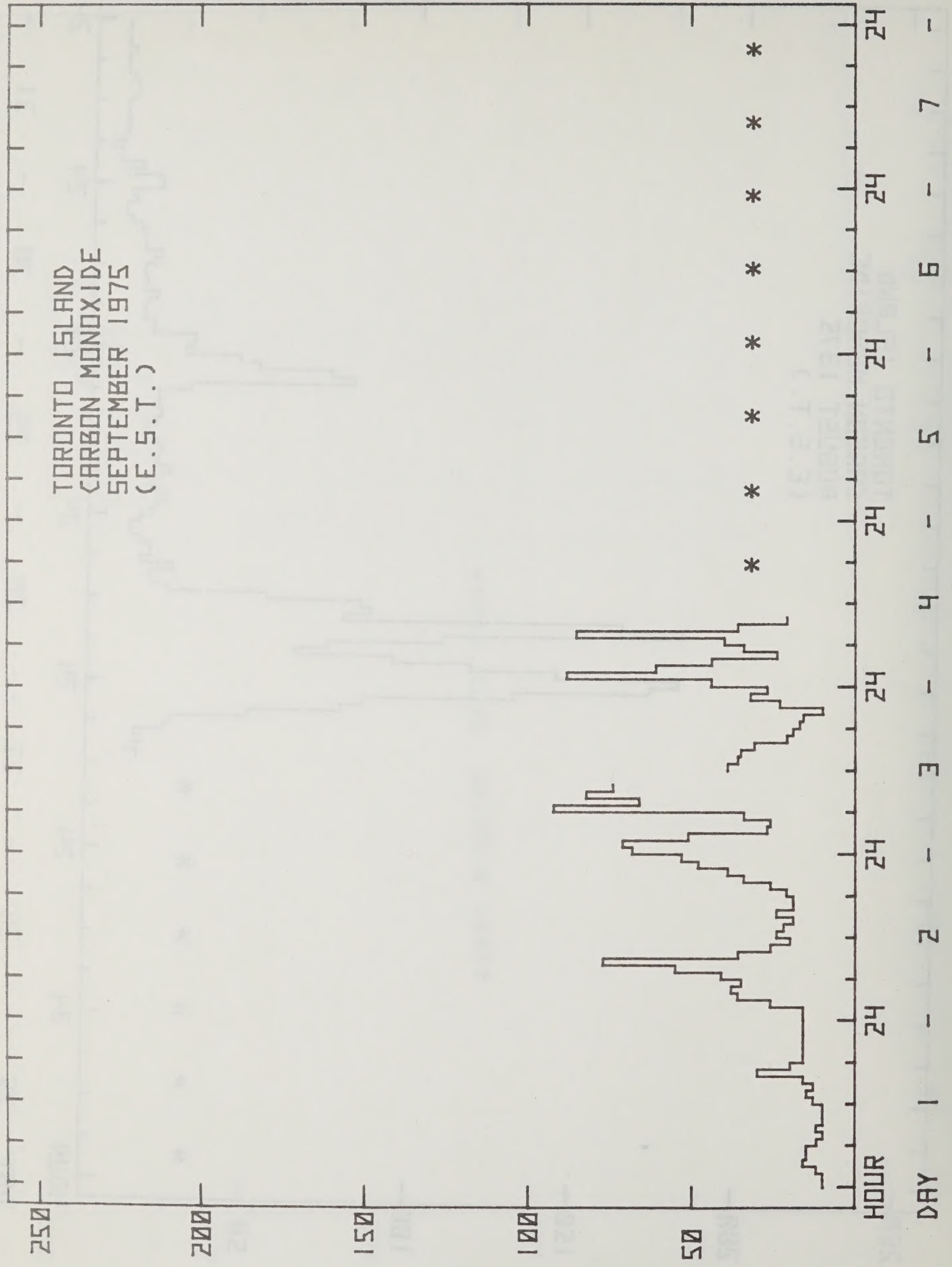
CONCENTRATION (PPHM)

TORONTO ISLAND
CARBON MONOXIDE
AUGUST 1975
(E.S.T.)



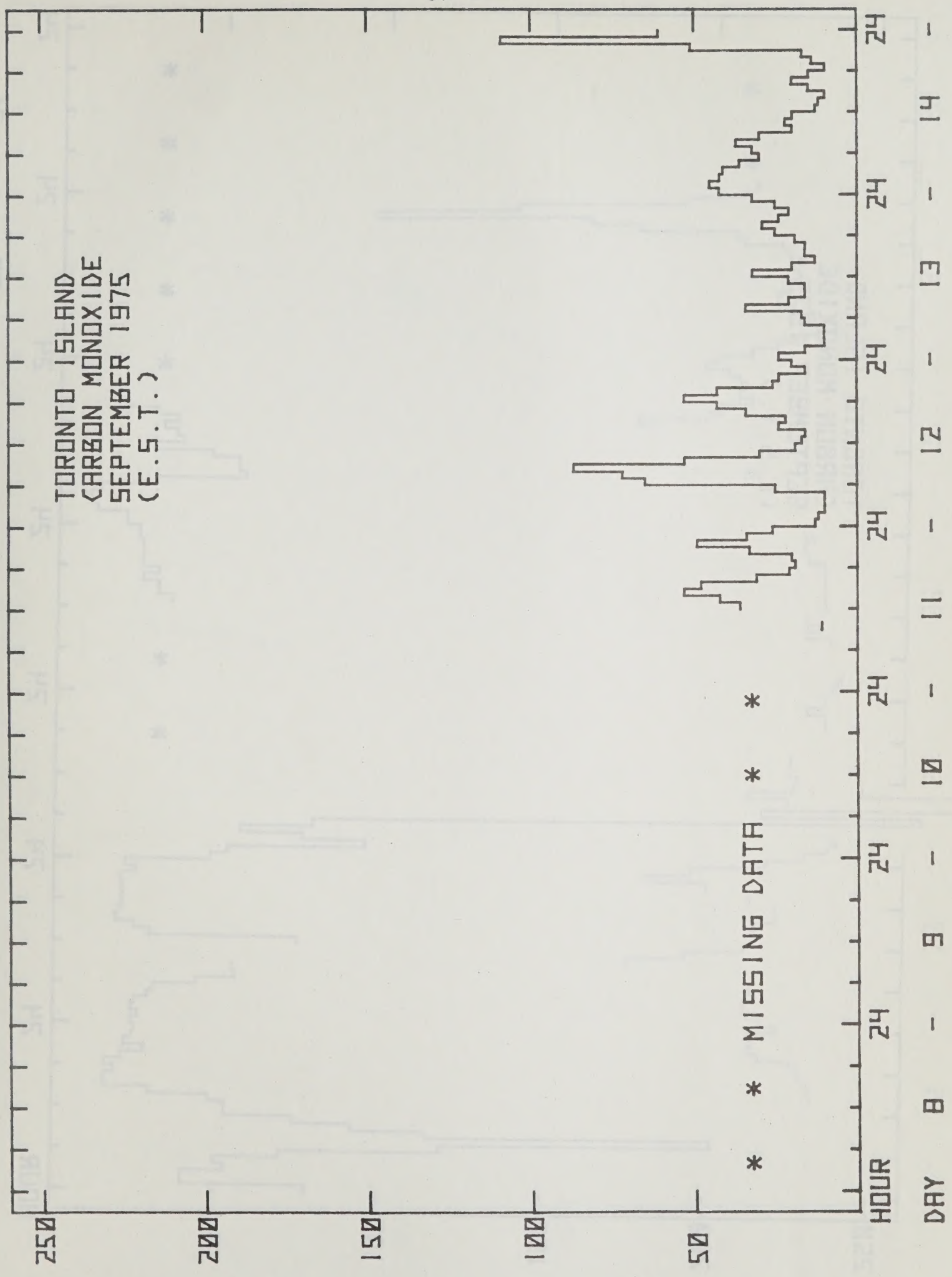
TORONTO ISLAND
CARBON MONOXIDE
SEPTEMBER 1975
(E.S.T.)

CONCENTRATION (PPHM)

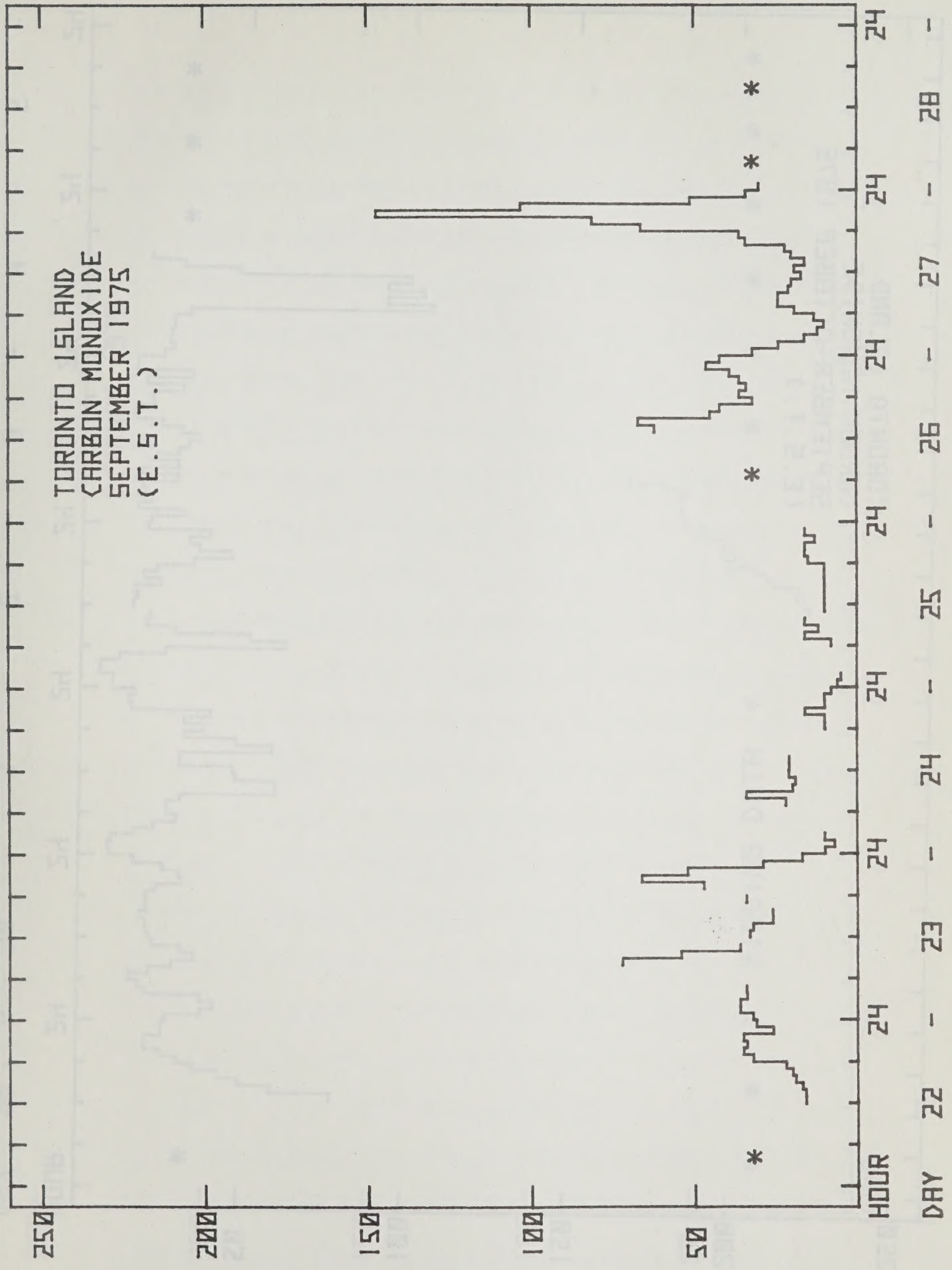


CONCENTRATION (PPHM)

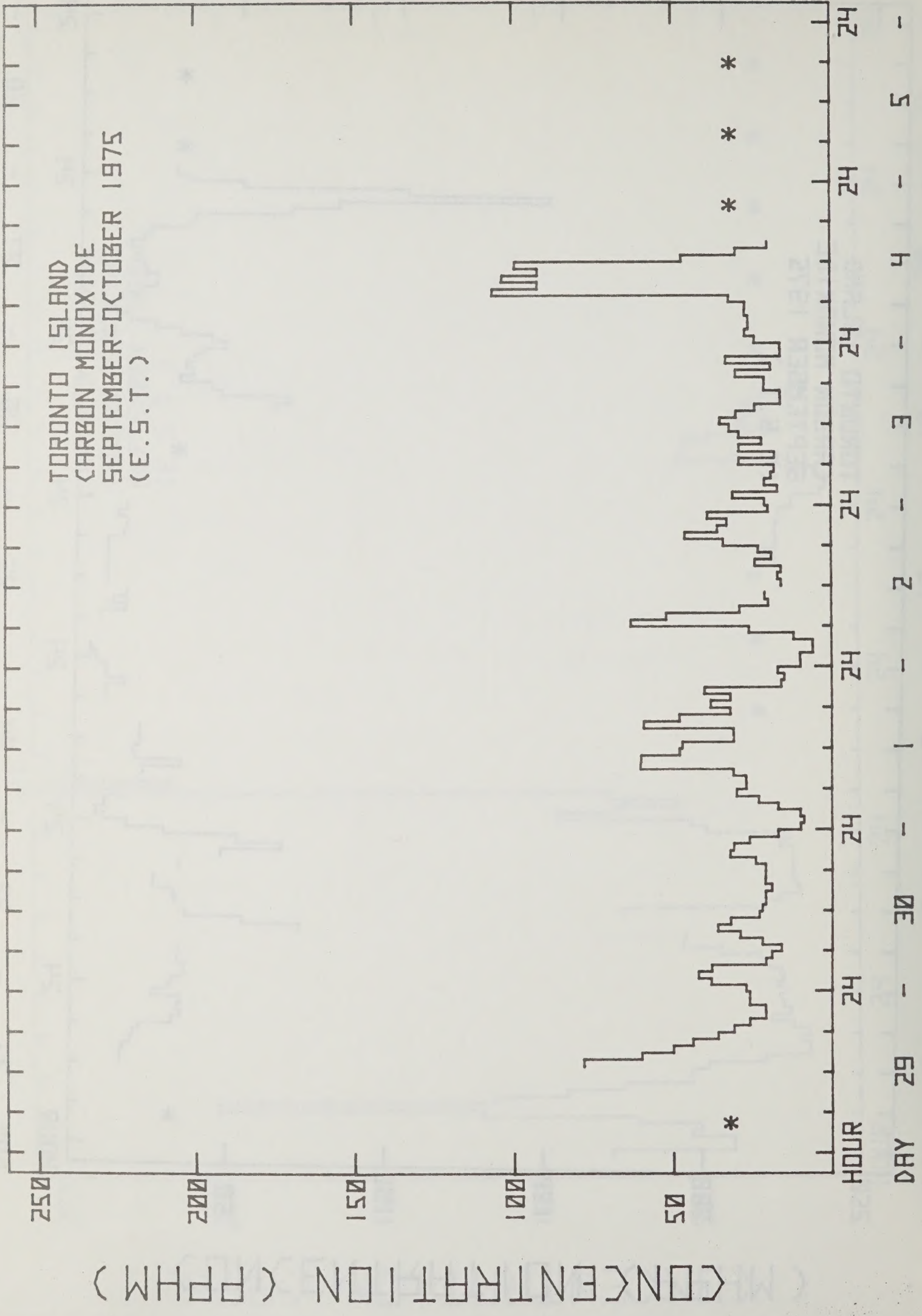
TORONTO ISLAND
CARBON MONOXIDE
SEPTEMBER 1975
(E.S.T.)



TORONTO ISLAND
CARBON MONOXIDE
SEPTEMBER 1975
(E.S.T.)

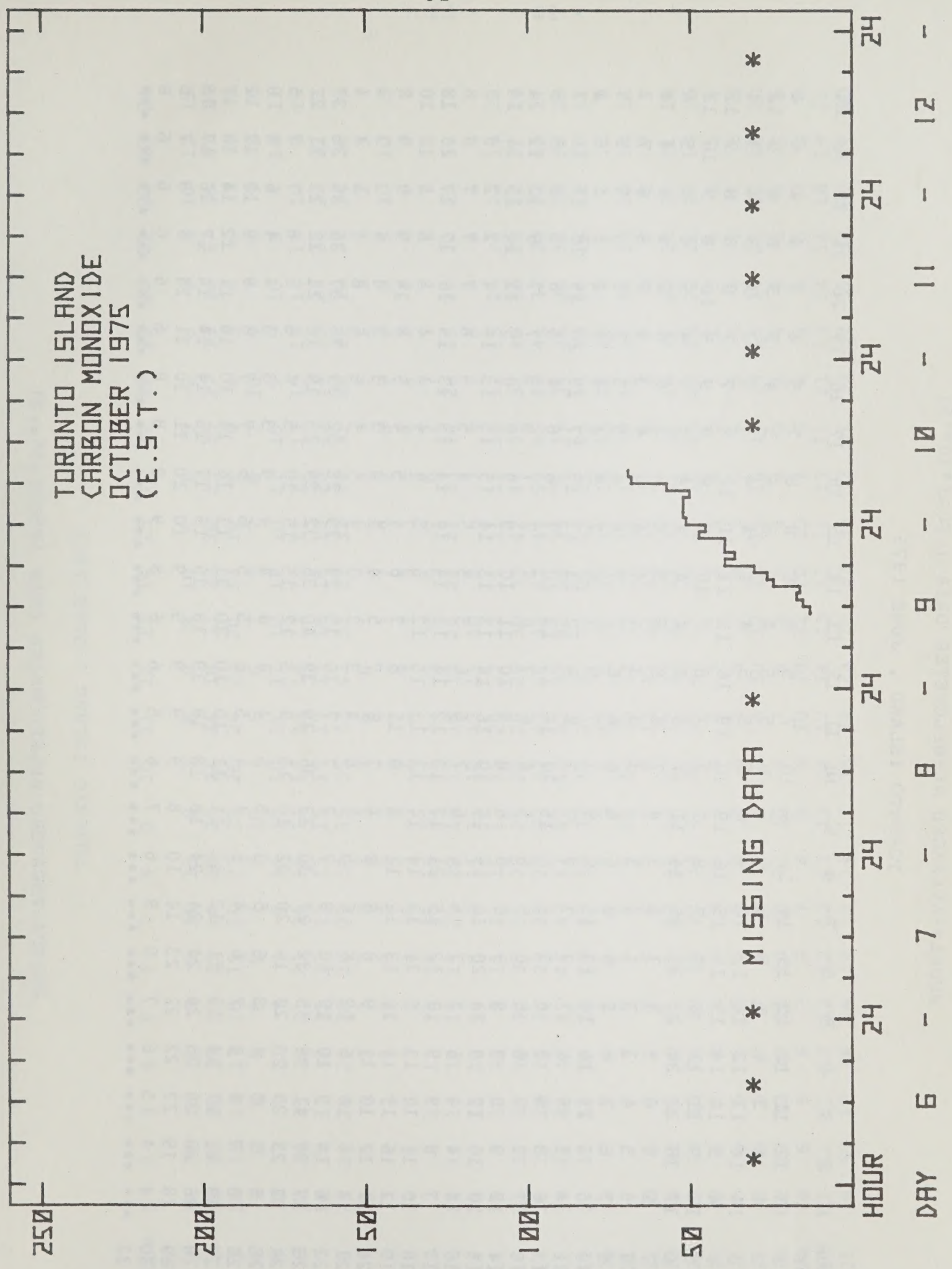


TORONTO ISLAND
CARBON MONOXIDE
SEPTEMBER-OCTOBER 1975
(E.S.T.)



TORONTO ISLAND
CARBON MONOXIDE
OCTOBER 1975
(E.S.T.)

CONCENTRATION (PPHM)



TORONTO ISLAND , JUNE 1975

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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2	14	14	13	12	14	12	10	9	8	6	5	5	4	4	4	4	3	3	3	8	3	4	3	4
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12	7	7	9	9	9	9	8	8	8	8	9	10	11	10	9	9	9	8	9	12	14	15	14	14
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19	12	16	13	11	12	13	8	8	6	7	8	7	5	4	4	5	5	5	3	4	5	5	4	4
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28	16	20	25	25	26	24	24	24	18	18	18	19	18	18	18	17	16	14	14	14	12	14	18	17
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31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

HOURLY-AVERAGED NEPHELOMETER DATA (BSCAT*10**5)

TORONTO ISLAND , JULY 1975

HOURLY DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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2	19	22	22	17	13	13	14	20	20	21	24	18	33	33	30	15	15	17	15	14	17	18	17	14
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5	8	7	9	11	9	9	9	10	10	10	11	11	10	11	10	11	10	9	9	10	8	8	10	11
6	12	14	15	18	21	21	24	18	14	17	15	14	12	18	19	13	13	15	17	14	12	10	9	10
7	10	12	13	12	12	17	17	13	15	15	17	17	18	18	19	20	23	24	25	25	21	22	22	22
8	21	28	28	29	28	28	29	34	39	35	43	41	31	29	32	29	31	28	11	10	12	14	10	9
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10	3	2	2	2	2	2	2	3	2	2	2	2	3	7	9	9	8	8	4	6	8	10	10	8
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12	7	8	11	12	17	14	15	18	12	12	12	9	8	8	7	6	7	7	7	7	7	7	8	10
13	11	11	13	17	19	19	20	20	18	17	18	19	24	24	21	23	24	26	25	21	20	20	17	13
14	9	10	10	10	10	8	9	11	11	10	12	11	10	8	6	7	6	7	8	9	8	8	8	8
15	9	9	10	10	9	11	13	15	13	15	20	17	12	11	11	11	10	12	15	24	24	22	19	20
16	21	30	28	29	33	33	31	28	26	28	28	29	30	33	42	41	36	37	40	36	23	22	21	23
17	26	29	29	29	30	29	29	29	32	37	43	46	43	41	44	51	50	42	41	32	29	33	35	37
18	39	44	46	48	47	44	43	41	41	46	42	37	40	44	39	36	39	34	35	34	33	33	30	28
19	22	15	14	15	19	18	17	18	12	14	20	22	20	21	23	24	22	21	18	18	18	12	17	11
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27	6	6	6	7	7	6	6	8	8	7	8	10	12	13	14	16	19	13	13	17	25	20	13	10
28	12	12	12	12	11	10	10	11	10	9	7	6	6	5	4	4	4	4	4	4	5	6	8	6
29	6	6	6	6	7	7	7	8	8	9	10	10	12	10	10	7	4	4	6	6	6	7	8	9
30	11	11	11	12	12	12	12	13	12	14	17	14	13	13	14	13	11	11	13	14	14	18	18	18
31	18	17	17	14	14	14	14	14	17	18	22	23	28	37	36	32	31	33	32	31	32	37	44	43

HOURLY-AVERAGED NEPHELOMETER DATA (BSCAT*10**5)

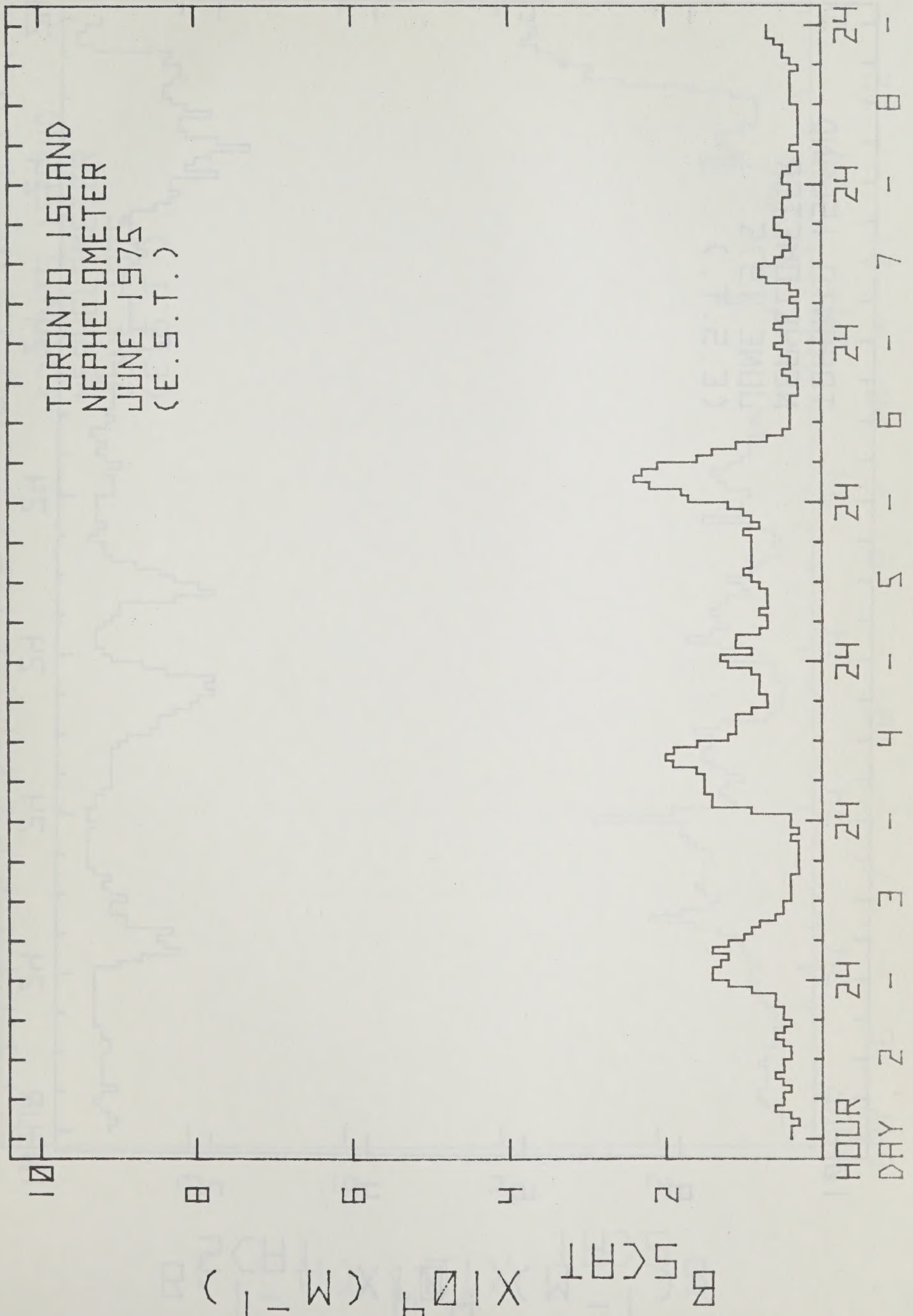
TORONTO ISLAND , AUGUST 1975

HOURLY DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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2	51	46	44	48	34	40	46	42	43	51	54	56	63	76	80	83	84	64	68	74	80	76	78	75
3	74	68	17	11	30	40	40	45	44	40	39	34	40	44	52	57	50	42	37	42	45	39	31	18
4	15	11	25	41	39	34	21	19	13	9	10	12	14	12	10	10	8	7	6	4	6	7	7	8
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16	11	12	12	13	14	15	16	15	13	12	11	12	12	13	9	9	11	10	11	12	13	15	15	16
17	17	18	18	17	23	27	31	25	30	32	35	34	29	17	15	16	14	13	13	12	11	12	10	7
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19	4	4	4	4	4	5	5	7	7	4	4	4	4	4	4	3	5	4	5	5	6	6	7	8
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21	8	8	8	9	10	13	18	14	8	7	9	10	10	10	11	12	16	21	20	9	12	14	13	13
22	17	20	21	15	10	9	7	10	9	9	8	8	9	8	8	7	7	7	6	7	7	9	12	15
23	15	13	11	11	9	9	6	5	5	5	6	6	6	5	5	5	5	5	6	7	7	6	7	8
24	7	6	8	3	4	4	4	16	24	19	19	14	9	9	8	8	8	8	9	8	***	***	***	***
25	***	***	***	***	***	***	***	***	***	15	17	19	20	19	18	21	23	21	19	19	20	22	21	16
26	11	10	9	9	10	11	12	12	12	13	12	13	15	10	9	10	8	7	8	10	11	11	8	7
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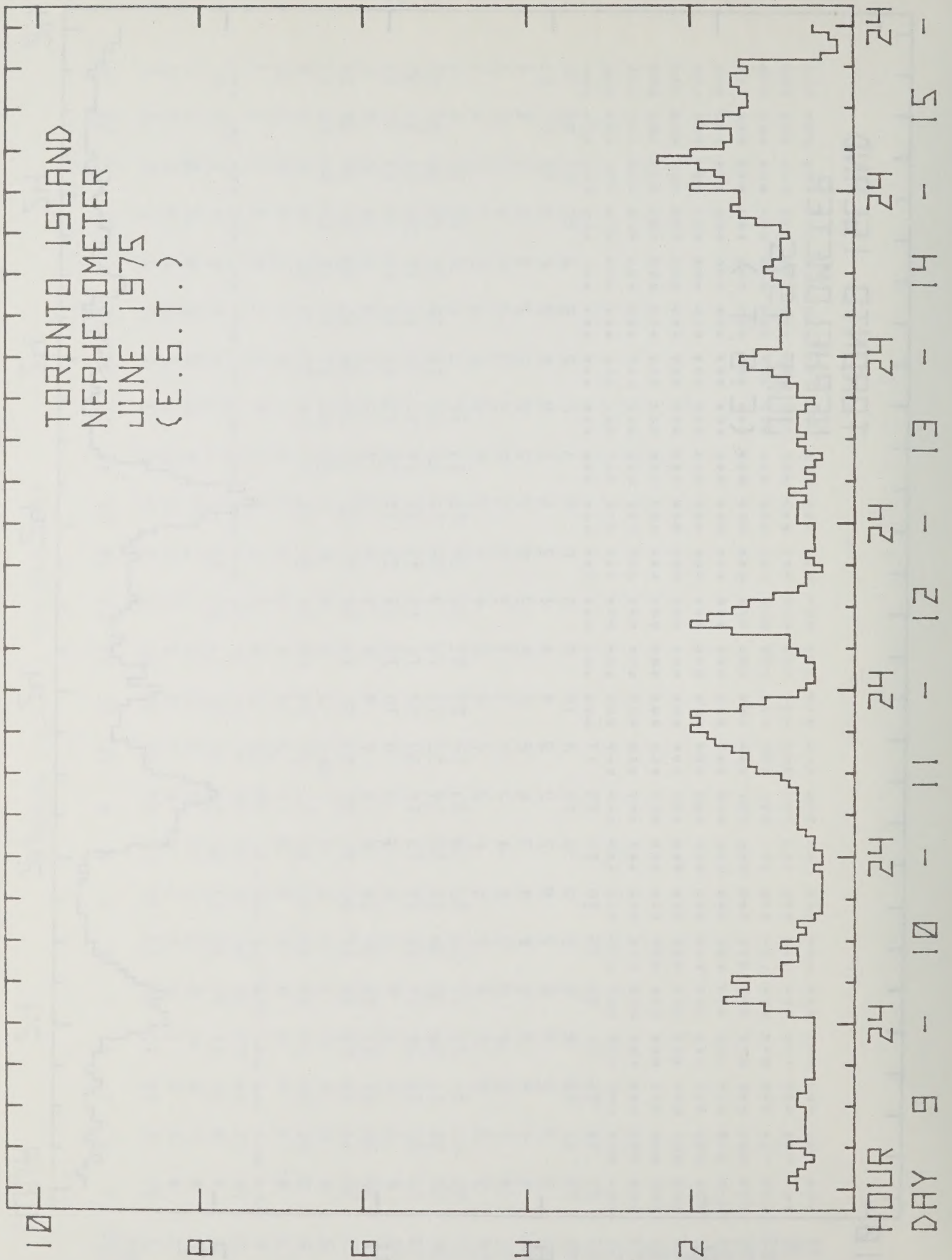
HOURLY-AVERAGED NEPHELOMETER DATA (BSCAT*10**5)

TORONTO ISLAND , OCTOBER 1975

HOURLY DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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4	8	8	10	11	12	12	17	20	23	24	26	25	17	14	10	7	7	6	6	6	6	6	8	11
5	10	12	14	19	25	26	24	21	19	16	15	15	15	***	***	***	***	***	***	***	***	***	***	***
6	***	***	***	***	***	***	***	***	19	12	7	7	7	7	6	5	4	3	4	4	5	7	7	4
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21	13	14	12	10	10	10	10	10	12	11	***	***	***	***	***	***	***	***	***	***	***	***	***	***
22	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
23	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
24	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
26	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
27	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
28	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
29	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

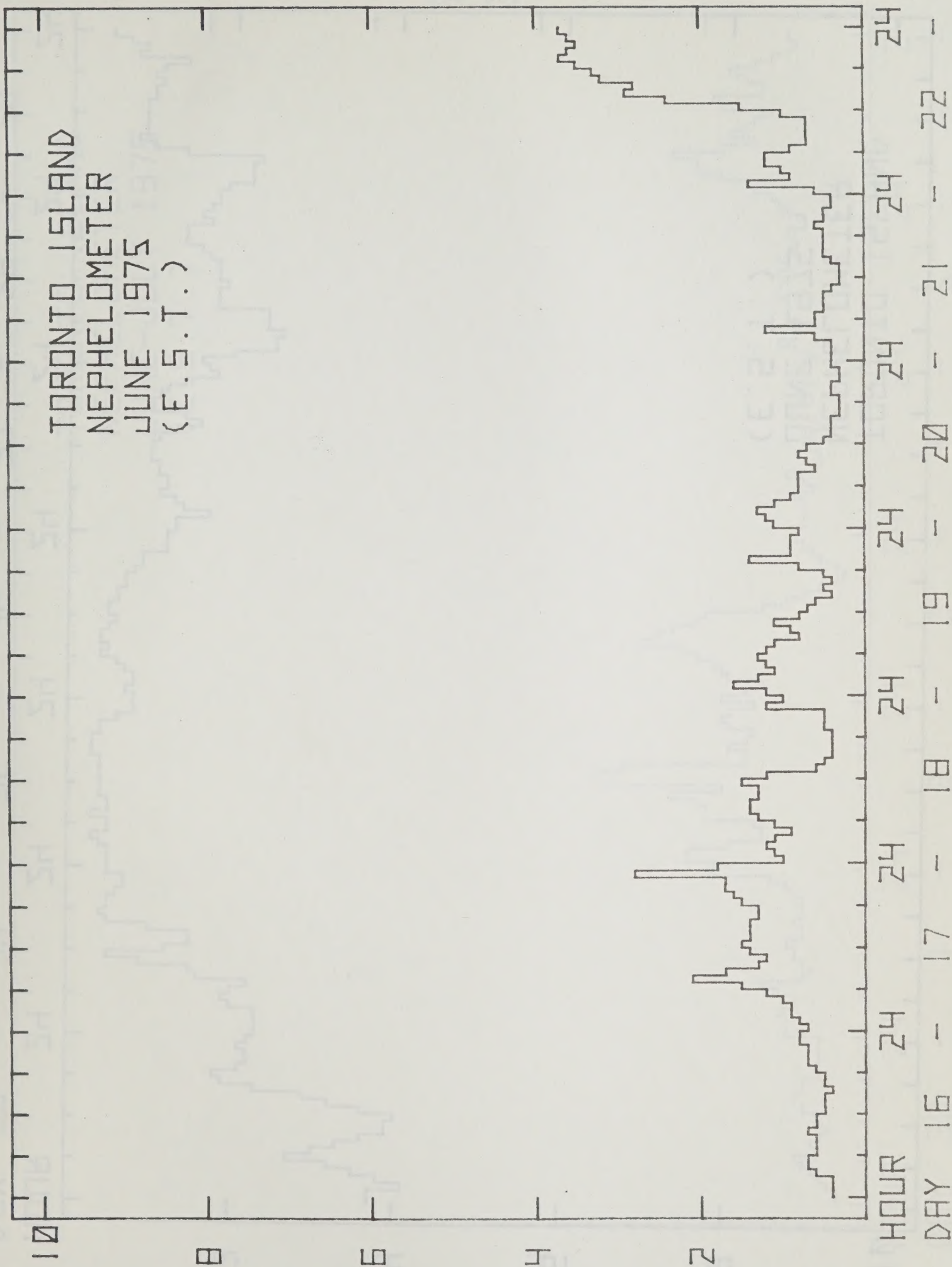


TORONTO ISLAND
NEPHELOMETER
JUNE 1975
(E.S.T.)



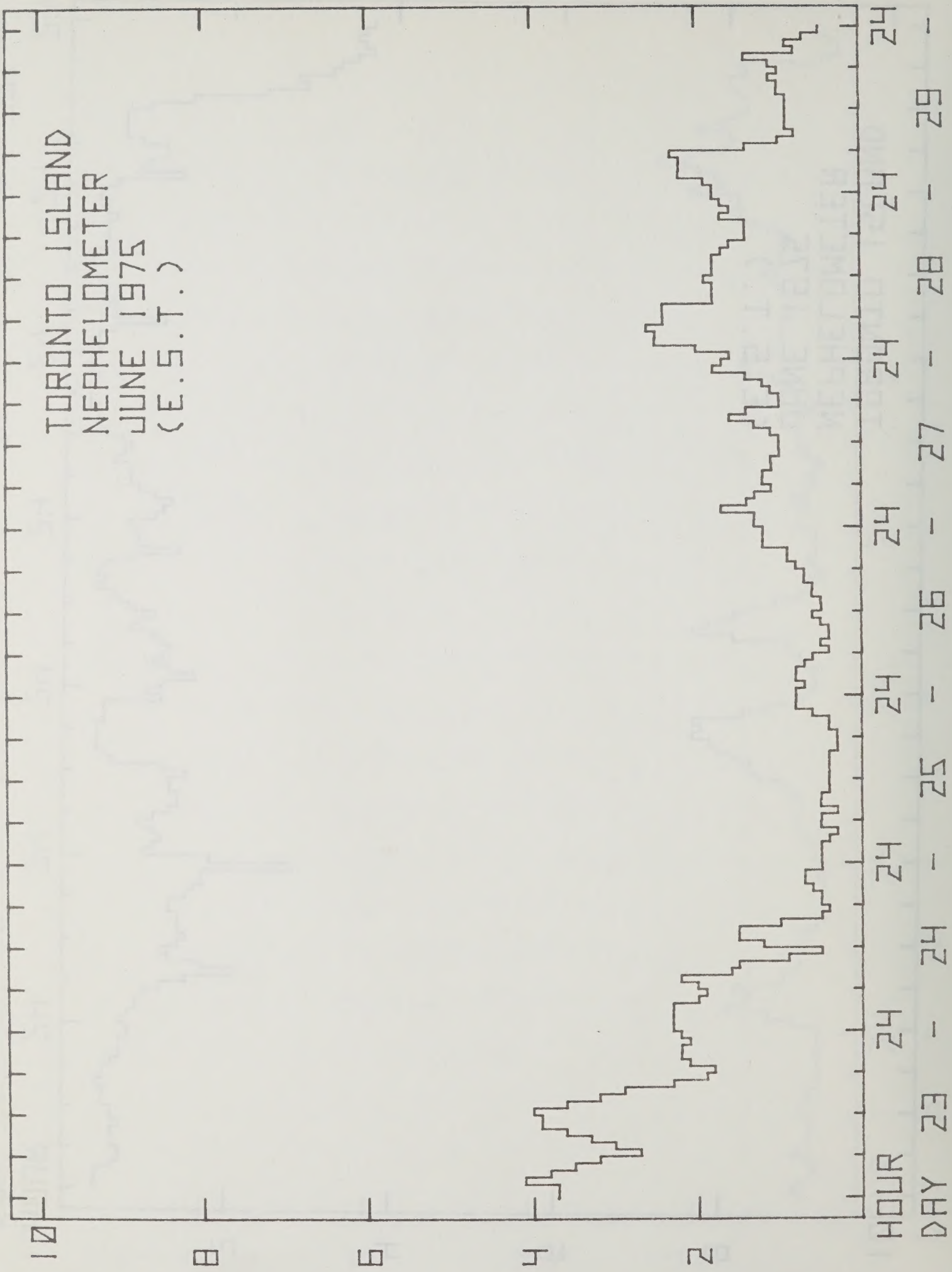
TORONTO ISLAND
NEPHELOMETER
JUNE 1975
(E.S.T.)

BR SCAT $\times 10^4$ (M⁻¹)

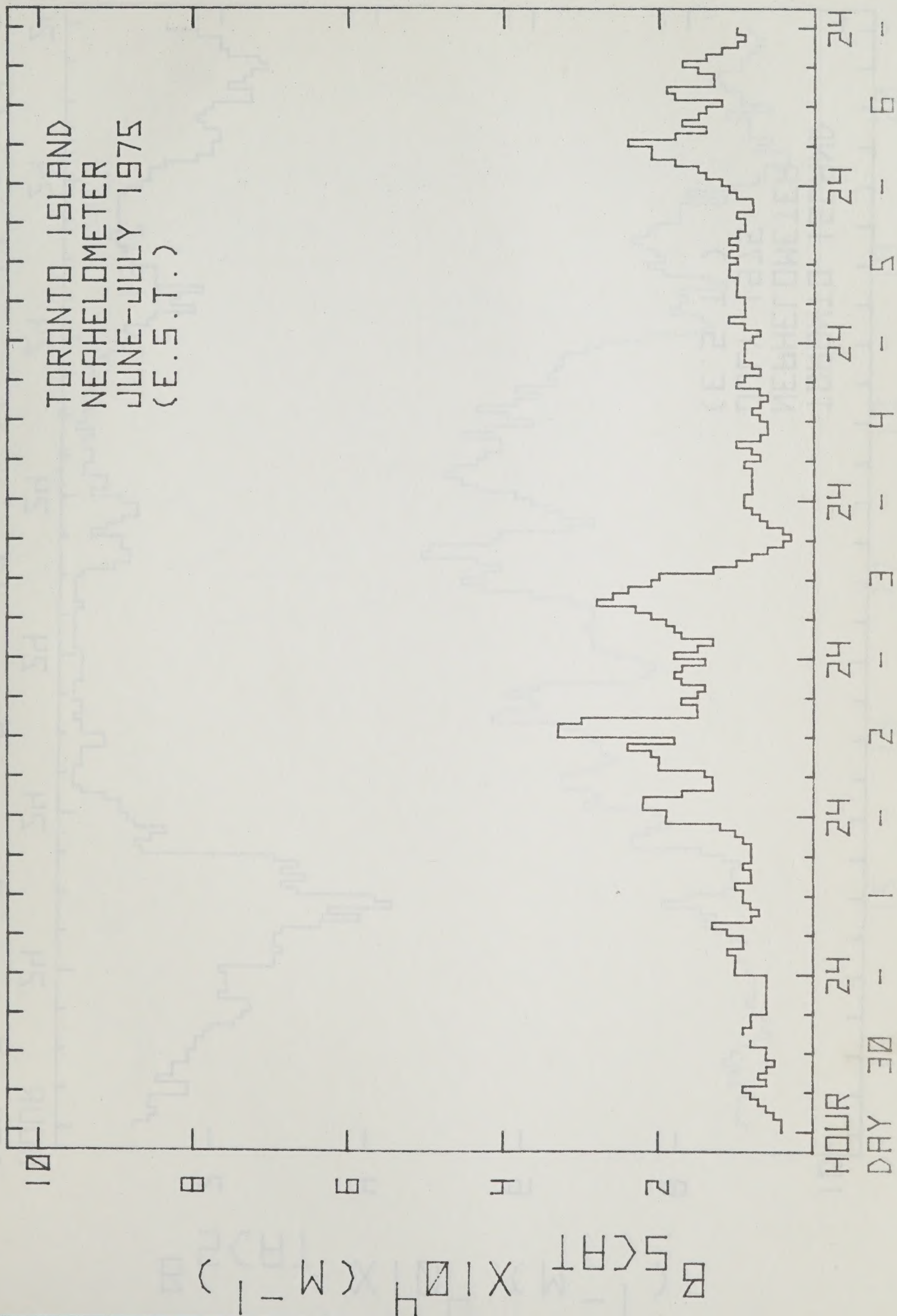


TORONTO ISLAND
NEPHELOMETER
JUNE 1975
(E.S.T.)

BR SCAT X 10⁴ (M⁻¹)

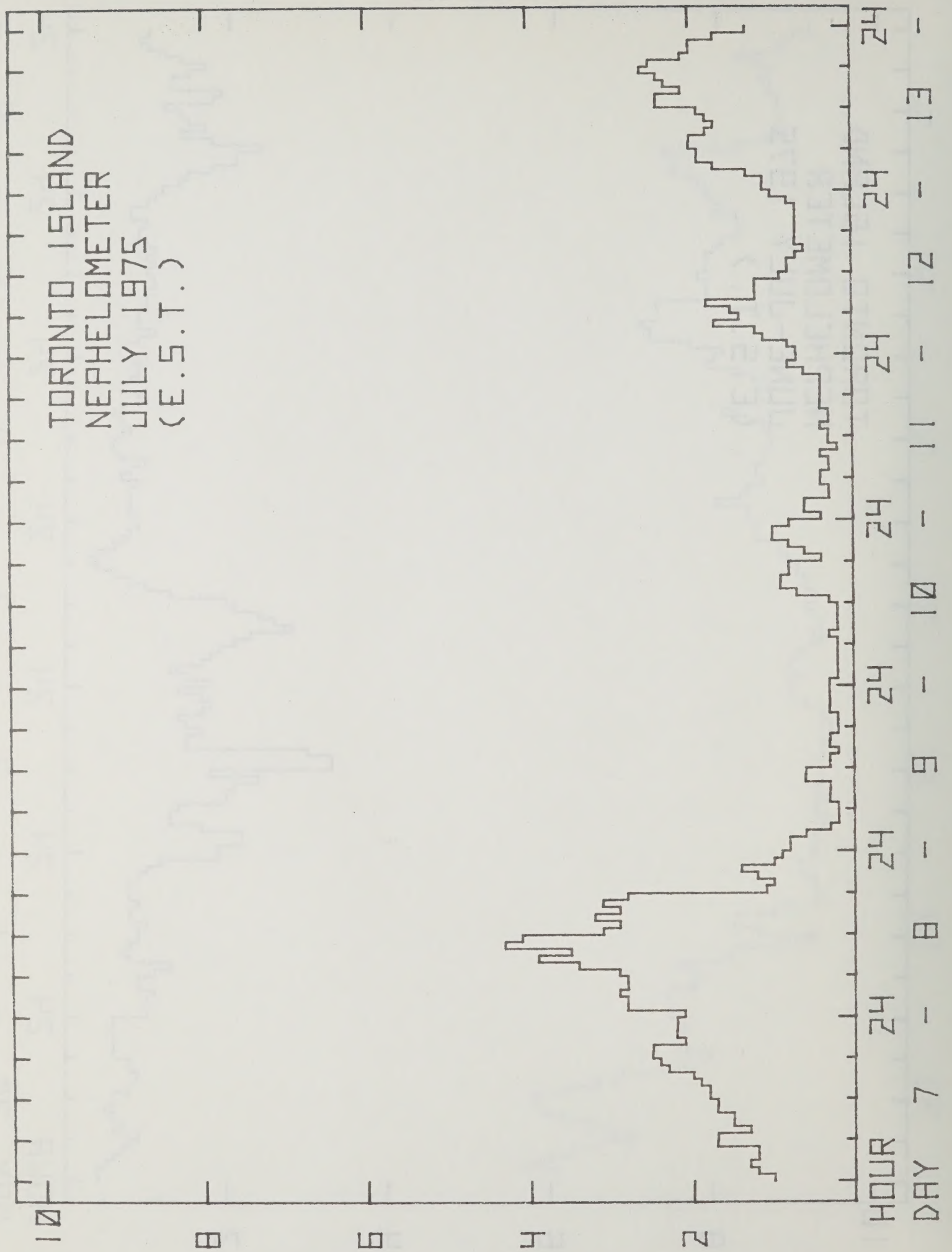


TORONTO ISLAND
NEPHELOMETER
JUNE-JULY 1975
(E.S.T.)

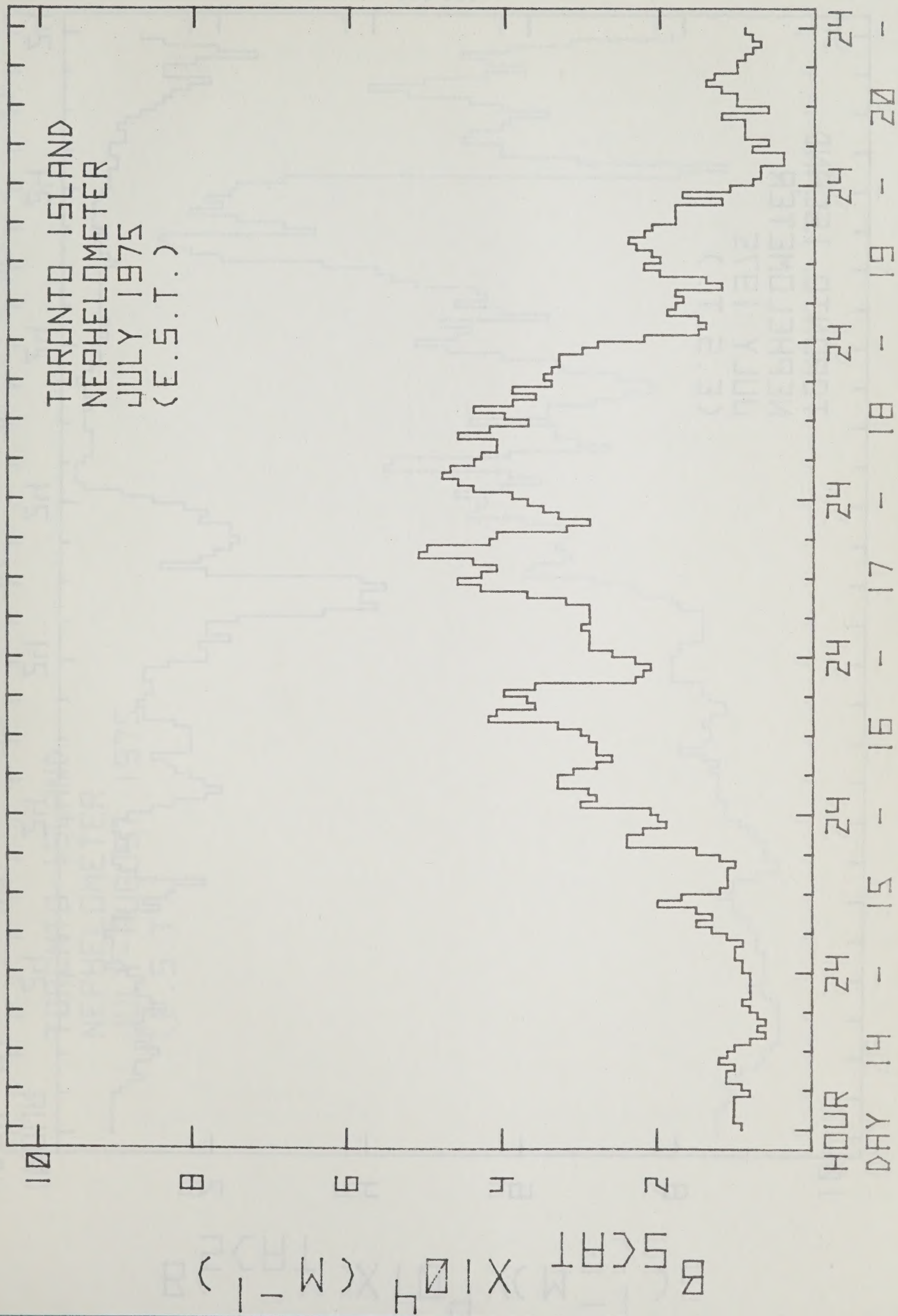


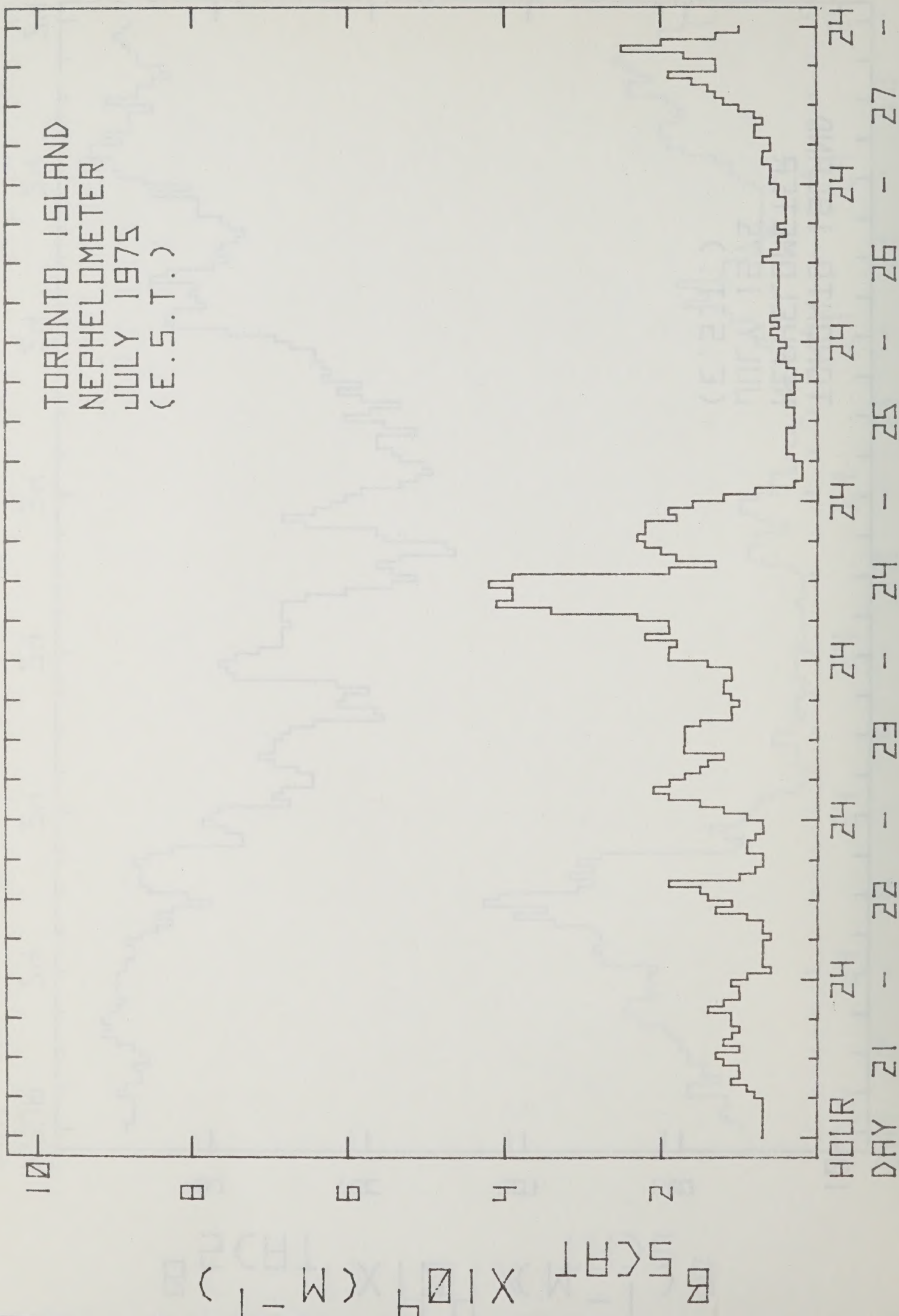
TORONTO ISLAND
NEPHELOMETER
JULY 1975
(E.S.T.)

BR SCAT $\times 10^4$ (M-1)

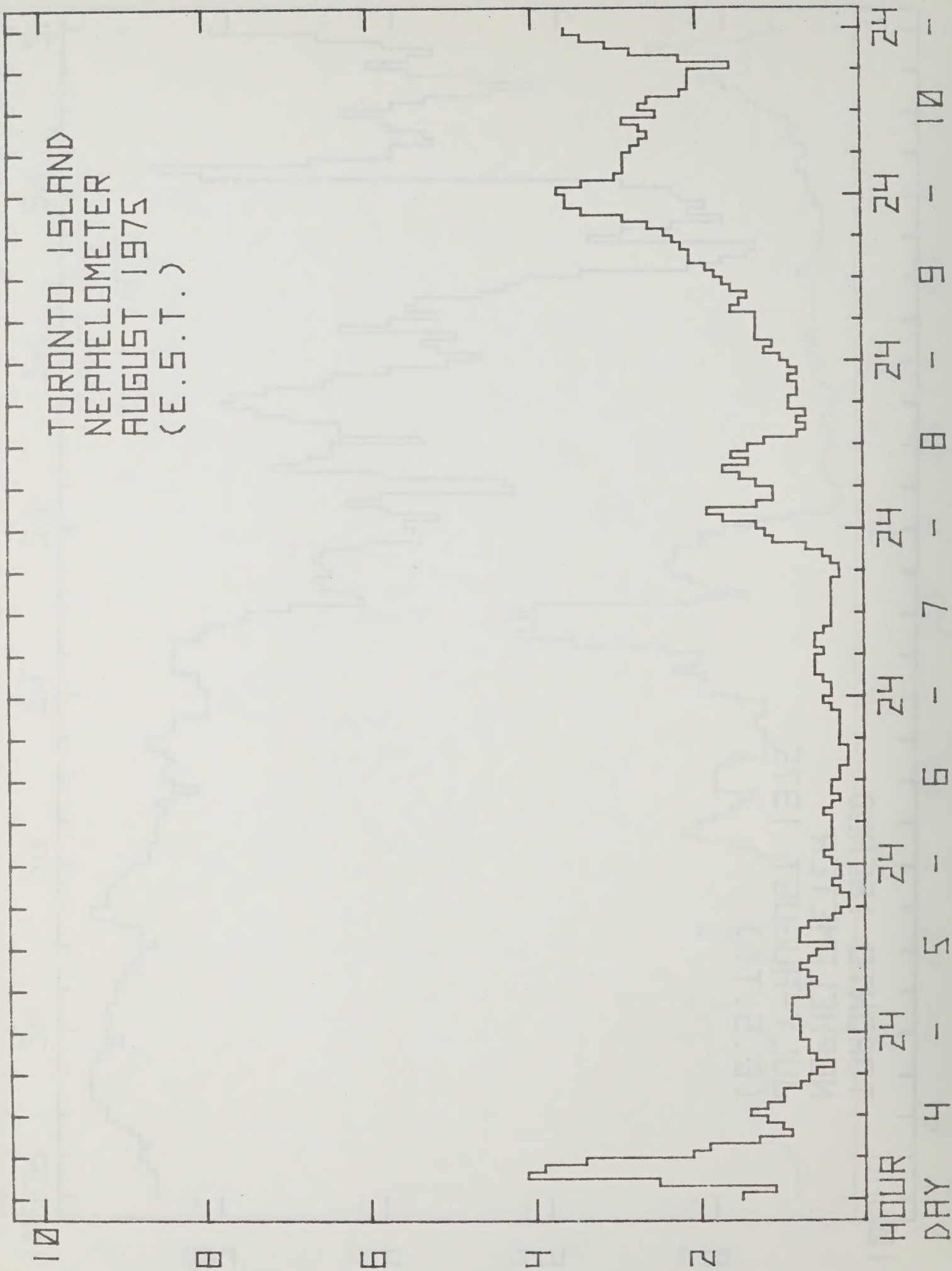


TORONTO ISLAND
NEPHELOMETER
JULY 1975
(E.S.T.)



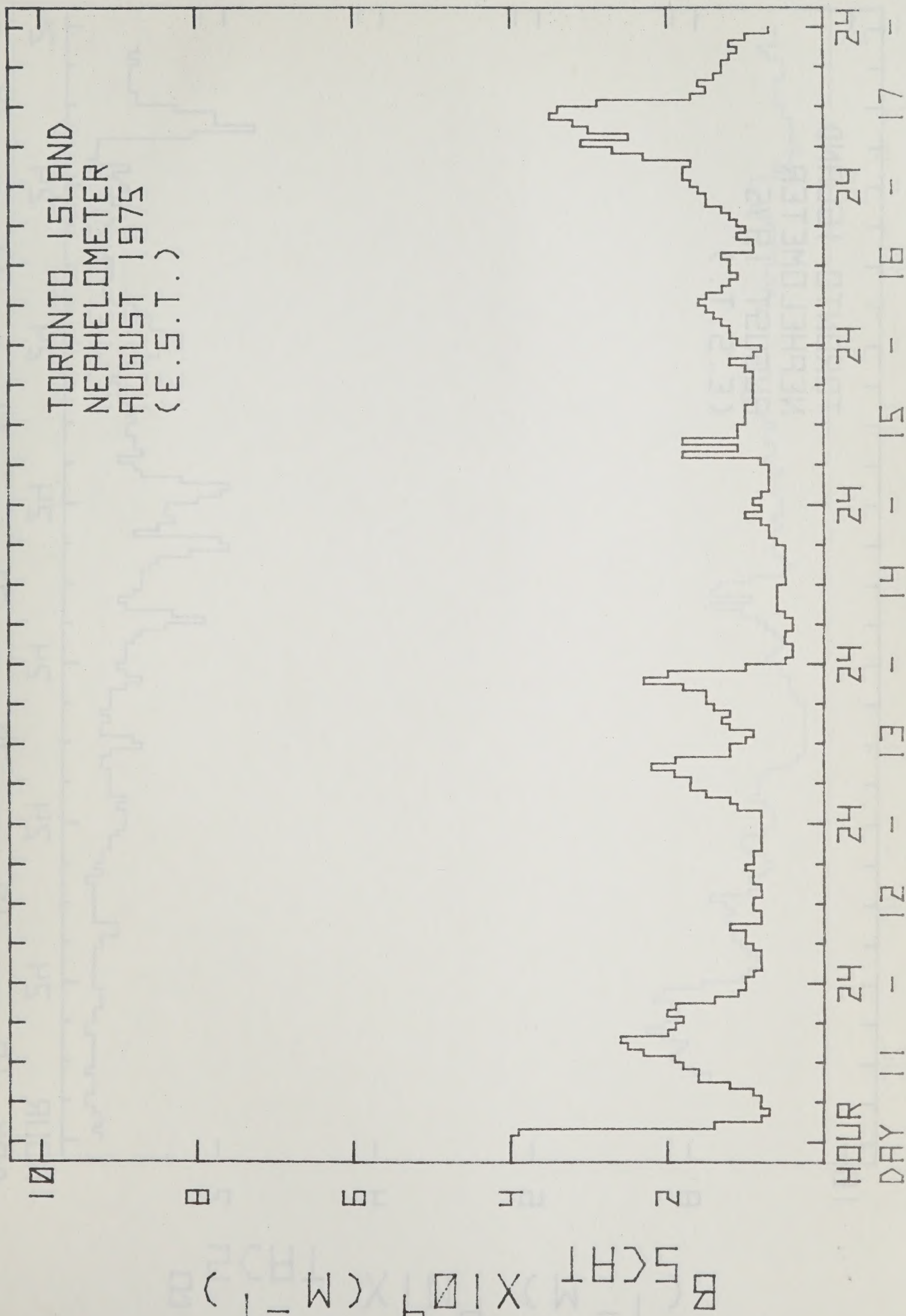


TORONTO ISLAND
NEPHELOMETER
AUGUST 1975
(E.S.T.)



AEROSOL OPTICAL DEPTH (M^{-1})

TORONTO ISLAND
NEPHELOMETER
AUGUST 1975
(E.S.T.)

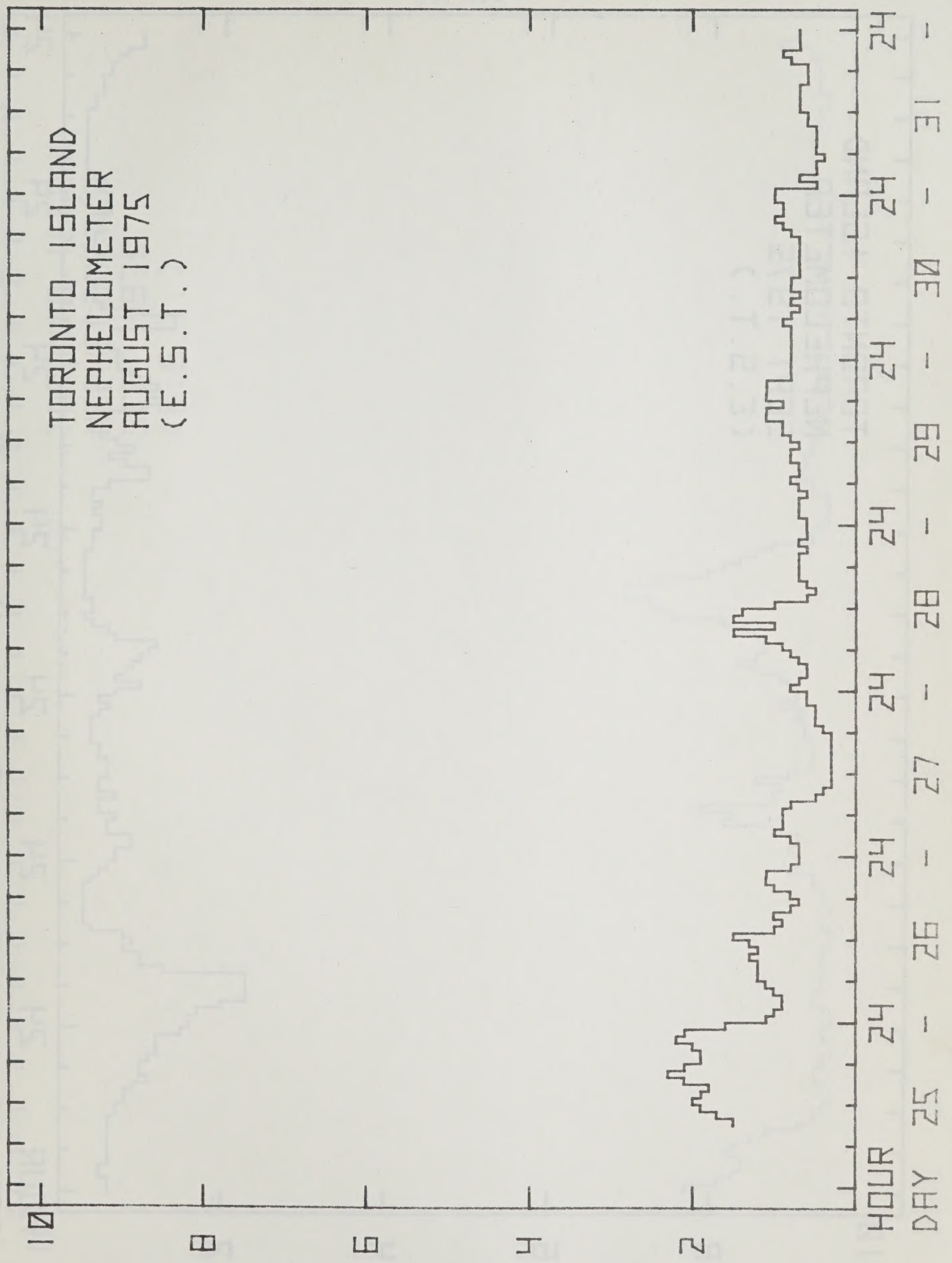


TORONTO ISLAND
NEPHELOMETER
AUGUST 1975
(E.S.T.)

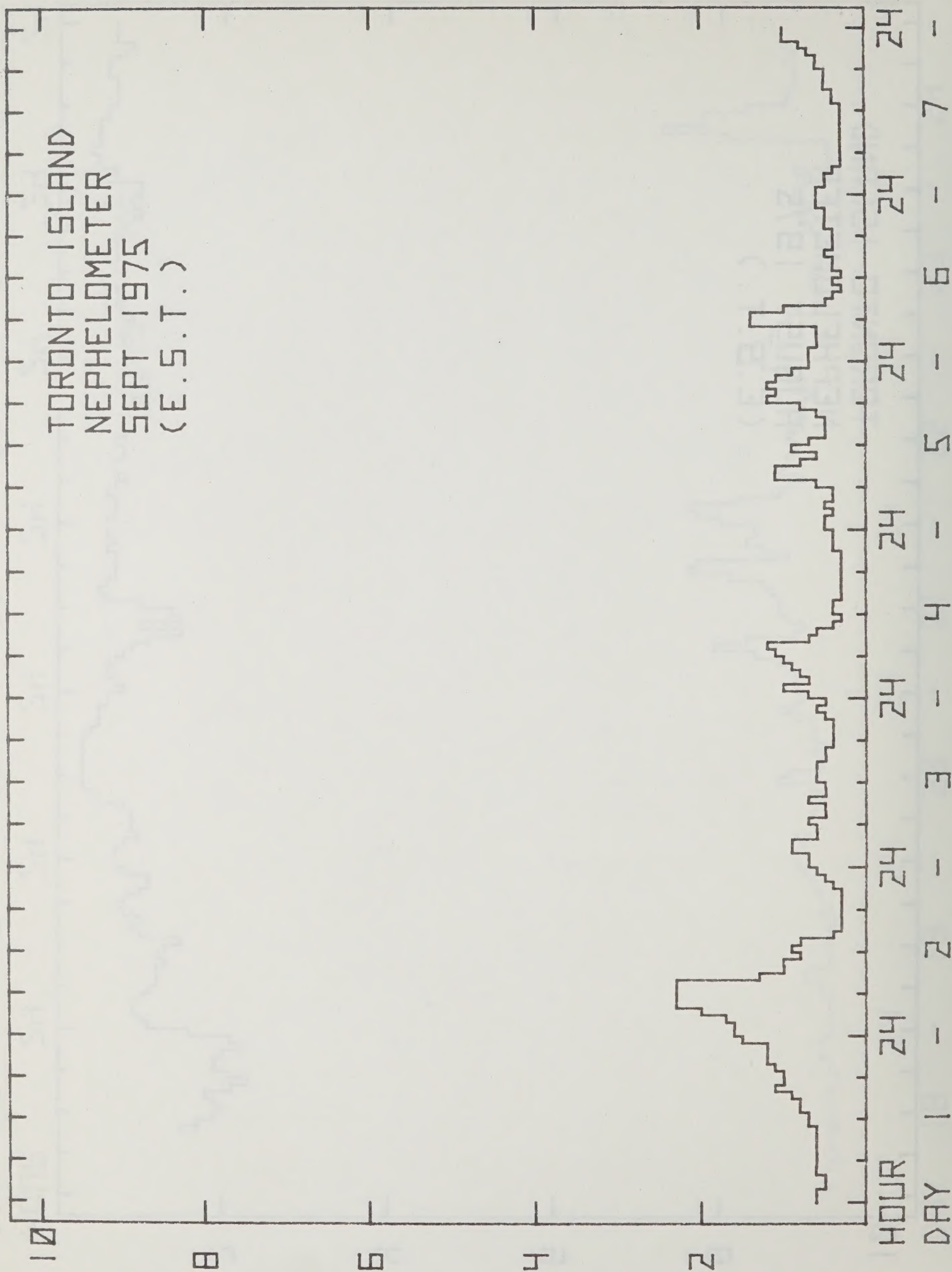


TORONTO ISLAND
NEPHELOMETER
AUGUST 1975
(E.S.T.)

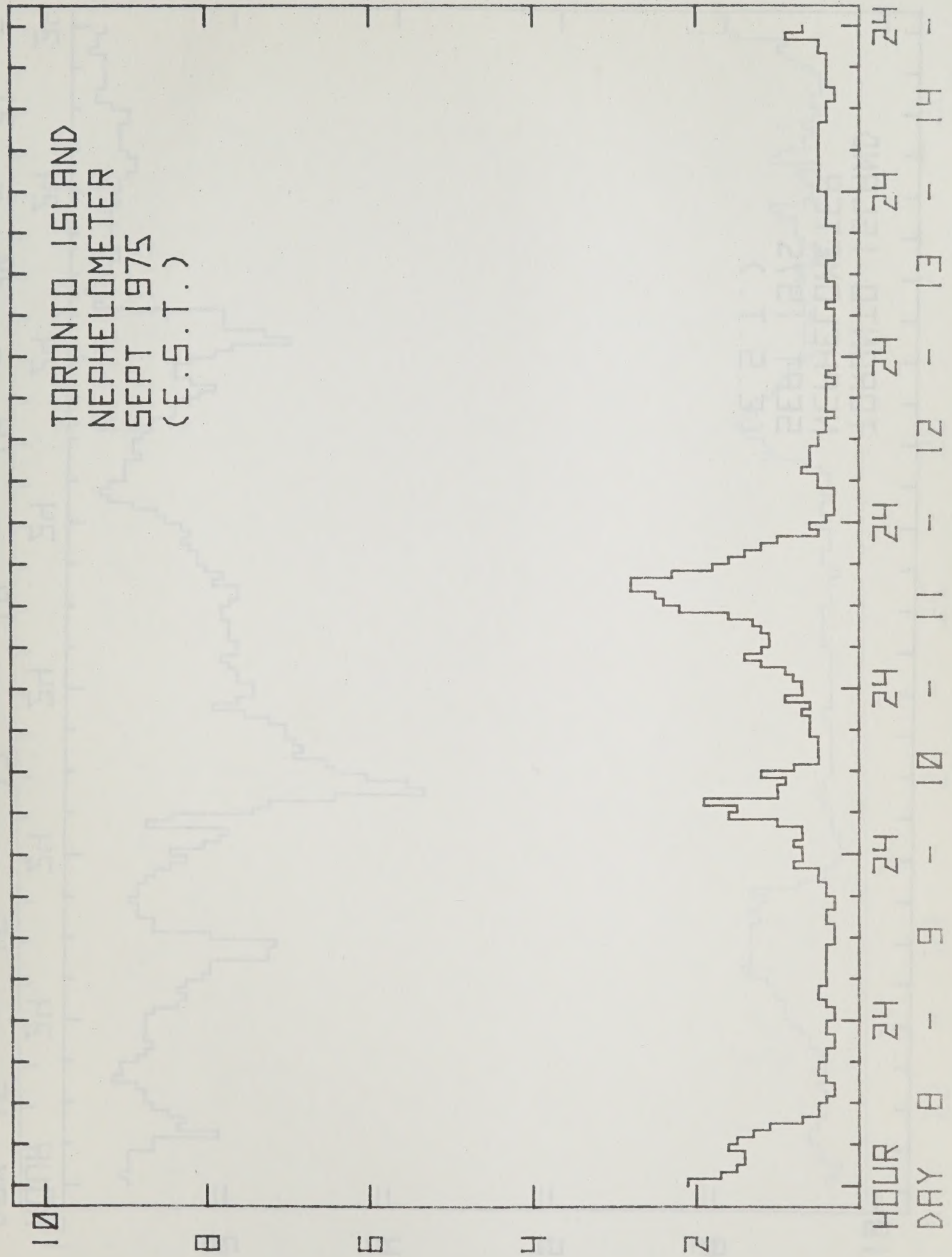
BR SCAT $\times 10^4$ (M⁻¹)



TORONTO ISLAND
NEPHELOMETER
SEPT 1975
(E.S.T.)

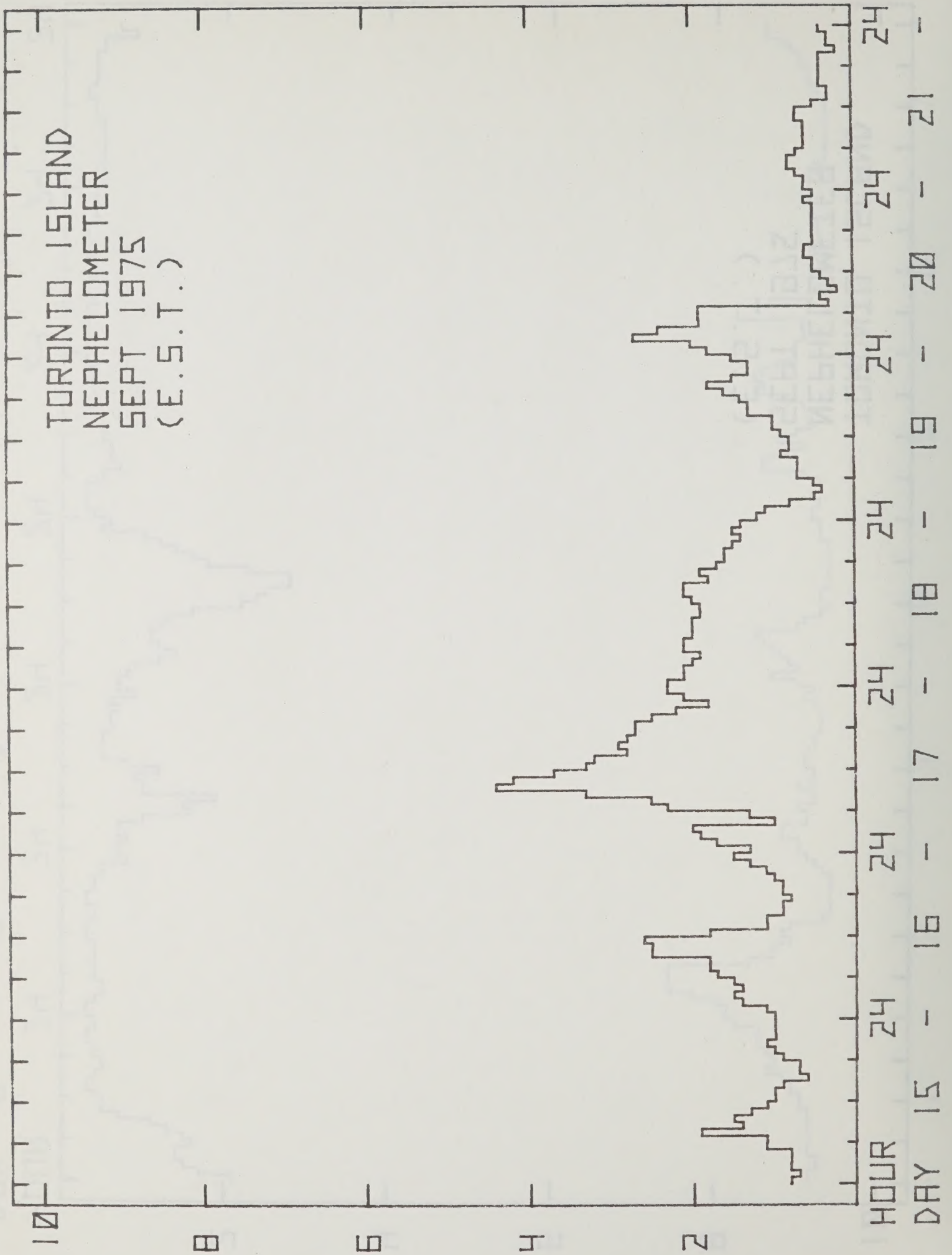


TORONTO ISLAND
NEPHELOMETER
SEPT 1975
(E.S.T.)

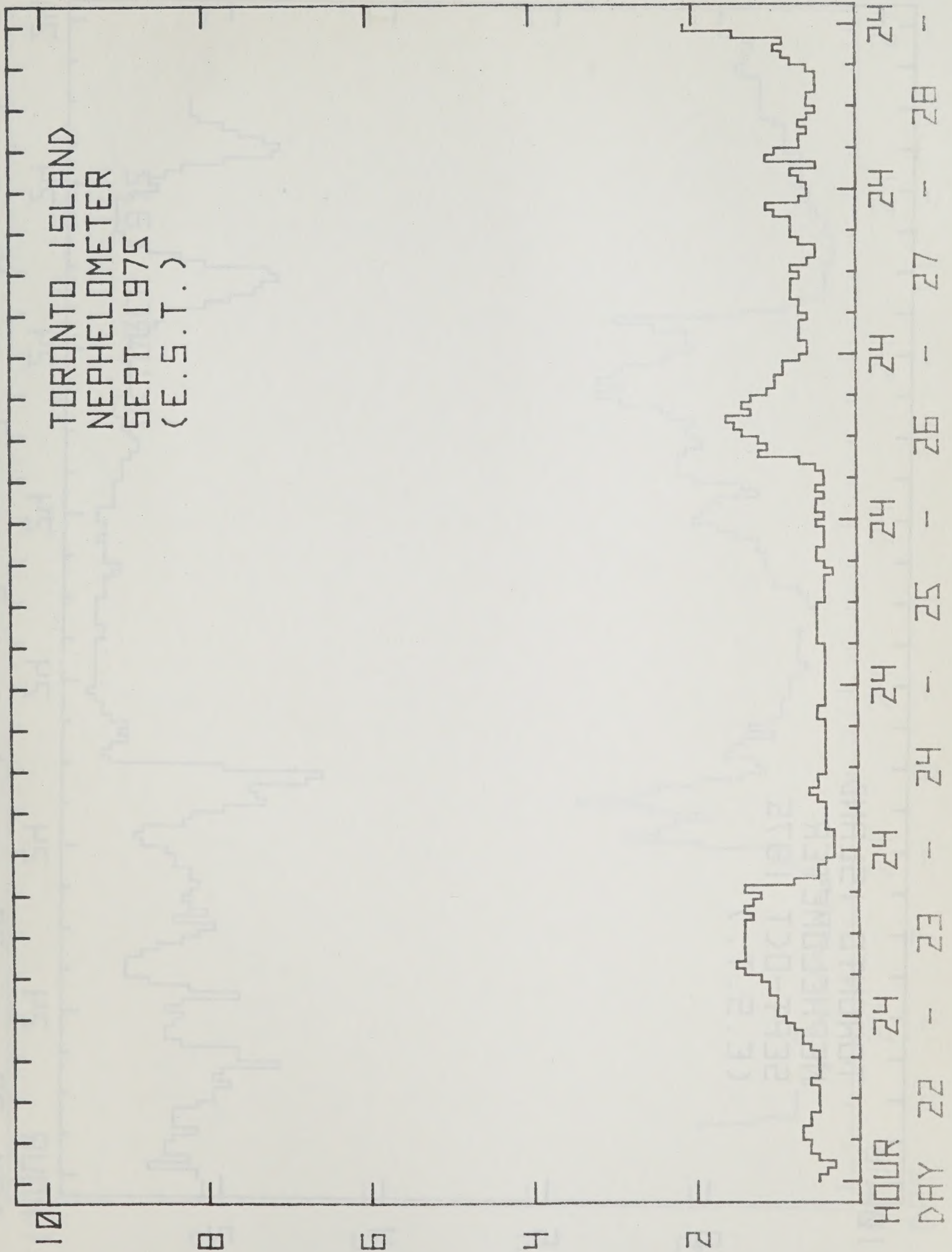


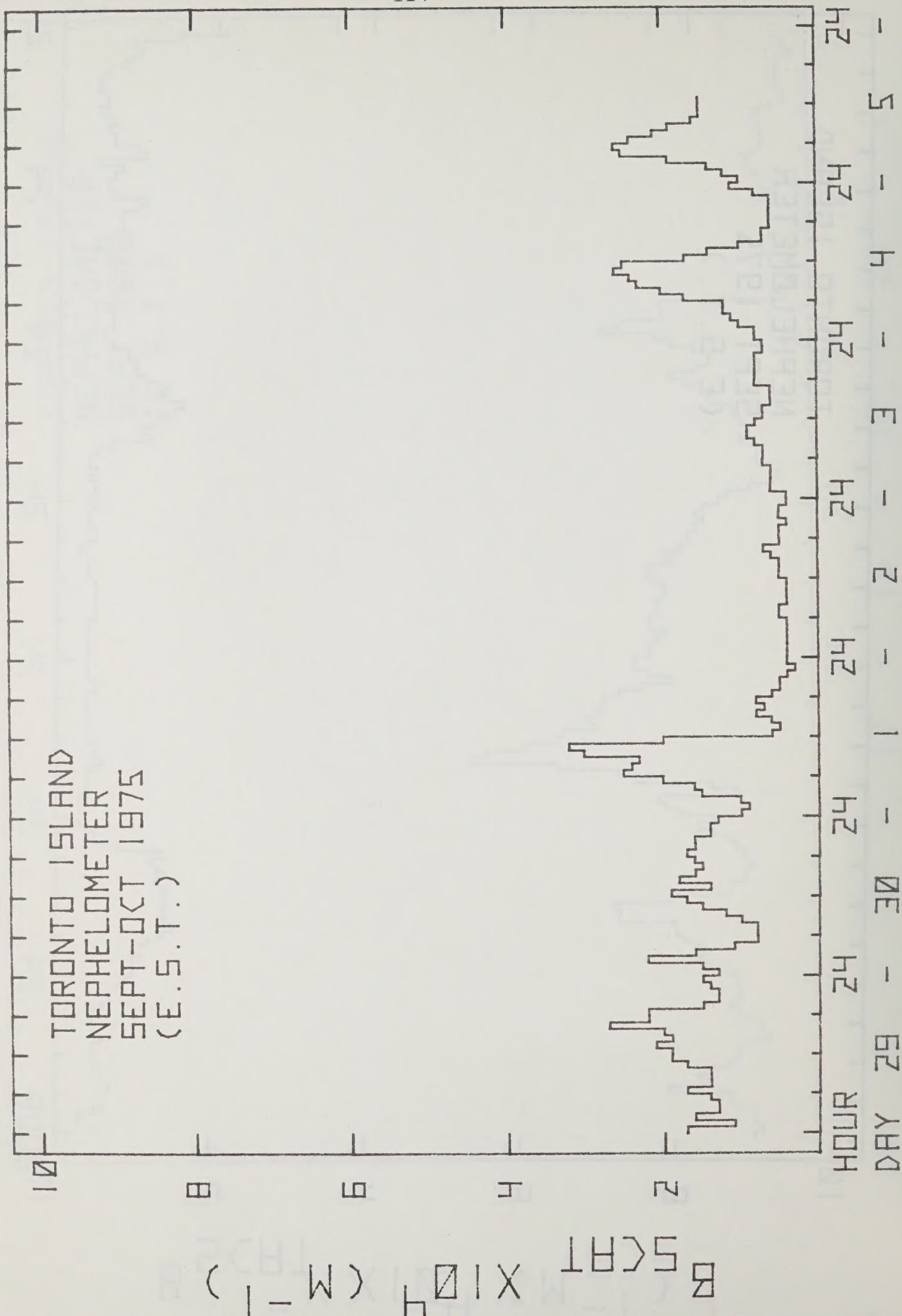
TORONTO ISLAND
NEPHELOMETER
SEPT 1975
(E.S.T.)

BR SCAT $\times 10^4$ (M⁻¹)

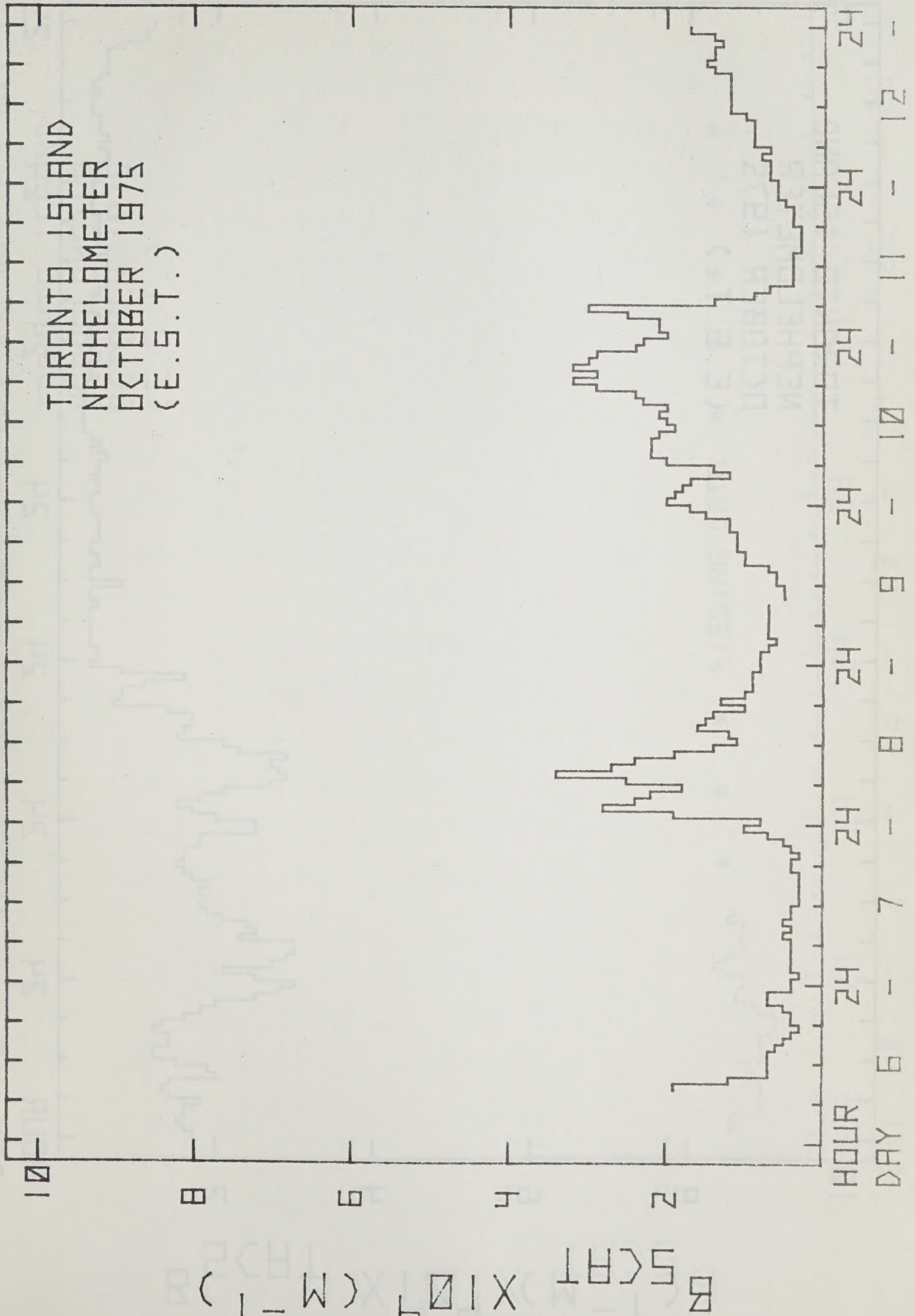


TORONTO ISLAND
NEPHELOMETER
SEPT 1975
(E.S.T.)

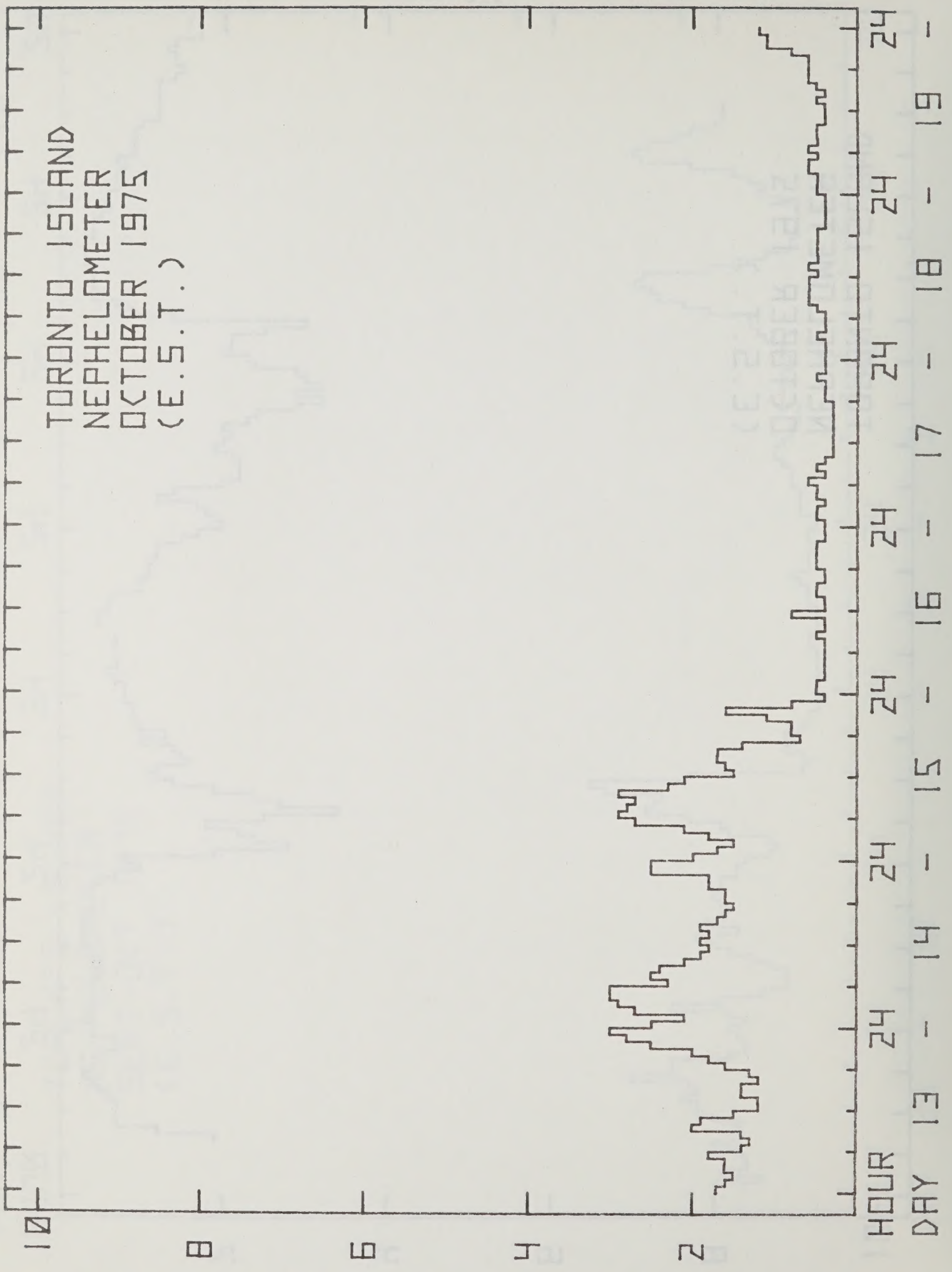




TORONTO ISLAND
NEPHELOMETER
OCTOBER 1975
(E.S.T.)

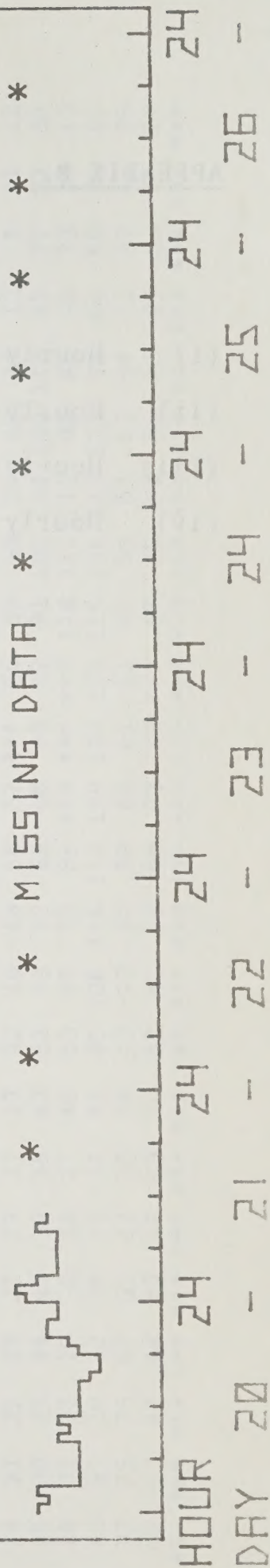


TORONTO ISLAND
NEPHELOMETER
OCTOBER 1975
(E.S.T.)



TORONTO ISLAND
NEPHELOMETER
OCTOBER 1975
(E.S.T.)

BR5CFT X10⁰ (M-1)



APPENDIX B.

AIR QUALITY DATA AT MAPLE

JUNE - OCTOBER 1975

- (i) Hourly-averaged Ozone Concentrations.....Page 119
- (ii) Hourly-averaged Nitrogen Oxides Concentrations....Page 143
- (iii) Hourly-averaged Nitric Oxide Concentrations.....Page 166
- (iv) Hourly-averaged Nitrogen Dioxide Concentrations...Page 171

HOURLY-AVERAGED OZONE CONCENTRATION (PPB)

MAPLE, JUNE 1975

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
2	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
4	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
9	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
10	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
12	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
13	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
14	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
15	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
16	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
17	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
18	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
19	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
20	30	30	33	34	30	30	24	20	23	27	32	44	45	25	52	54	54	48	44	42	37	33	28	30
21	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
22	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
23	***	***	***	***	***	***	***	***	***	67	79	89	88	83	82	70	69	67	62	55	47	39	47	36
24	40	47	52	55	49	53	41	37	38	***	***	***	***	44	41	39	40	36	31	32	31	24	24	

HOURLY-AVERAGED OZONE CONCENTRATION (PPB)

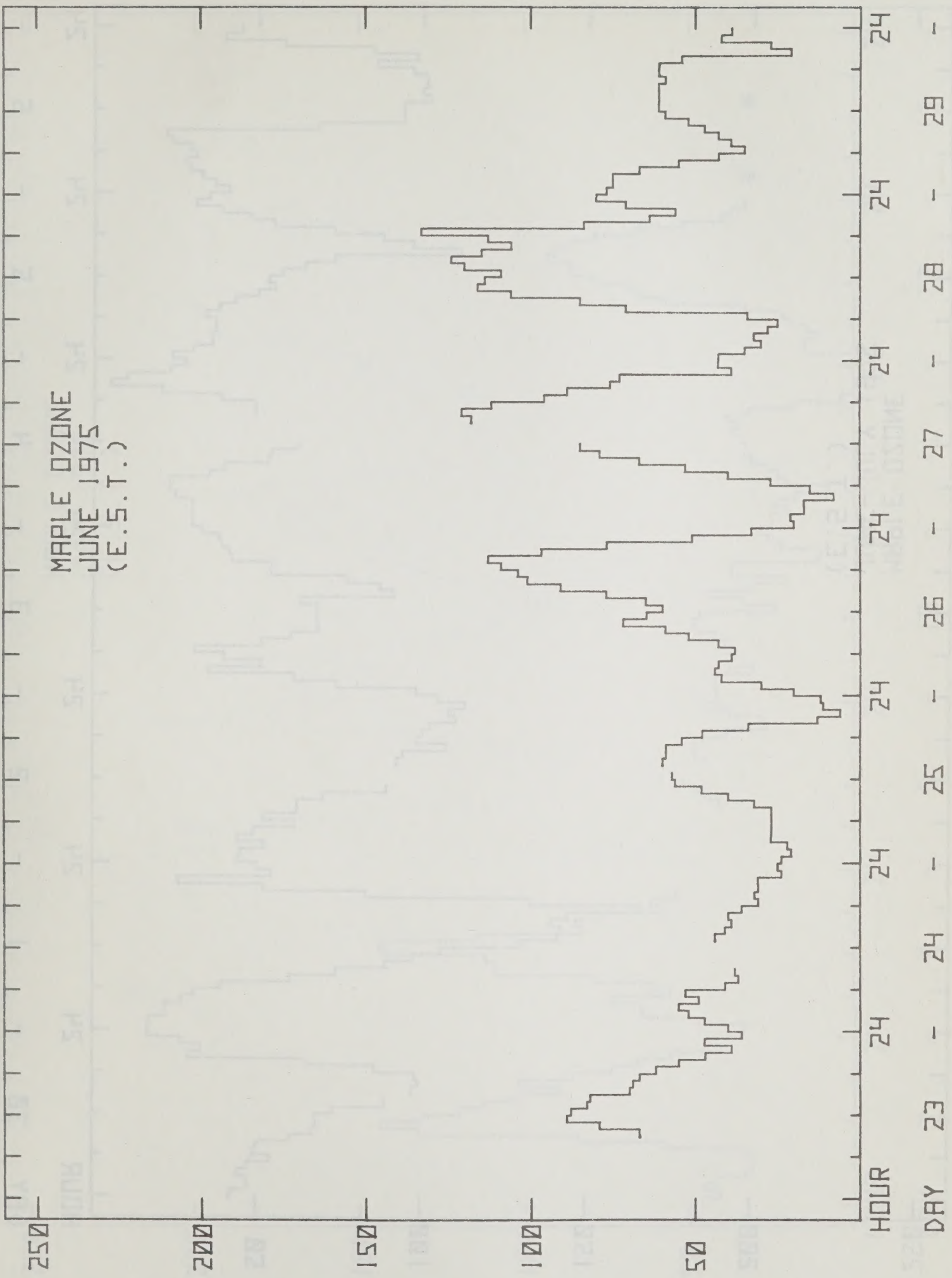
MAPLE, JULY 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	17	17	22	22	27	31	39	60	74	89	97	106	130	141	142	139	144	166	133	83	52	26	54	50
2	44	45	52	44	49	61	52	62	62	70	89	***	***	***	92	94	107	98	100	102	110	108	113	105
3	98	74	61	35	51	40	31	51	60	68	68	68	68	63	91	87	77	54	54	42	41	39	38	33
4	30	30	30	30	25	23	23	35	40	53	54	62	***	***	***	***	49	49	39	21	5	10	23	28
5	24	30	36	36	37	37	34	38	43	50	55	53	57	64	73	111	97	88	73	55	48	39	31	35
6	41	37	33	29	28	31	29	24	22	68	94	94	94	102	100	101	101	97	86	98	85	58	40	45
7	46	41	45	42	33	31	31	32	57	84	132	144	131	120	113	102	90	102	86	74	66	56	41	44
8	34	33	47	64	65	74	56	62	79	109	109	112	142	144	115	83	85	77	53	62	54	***	***	***
9	***	***	***	***	***	***	***	***	***	41	45	48	52	***	***	45	48	49	46	39	27	28	38	45
10	42	42	42	42	31	38	37	39	39	42	48	49	47	24	34	44	31	21	37	37	11	10	22	26
11	29	25	25	20	24	18	8	21	23	26	31	33	33	34	37	35	39	32	18	4	0	0	0	0
12	0	0	15	15	11	14	19	22	33	57	65	68	79	85	86	93	91	87	79	66	52	40	37	33
13	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
14	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	64	66	72	71	70	60	43	15	37
15	40	42	42	42	35	18	10	19	51	78	89	95	88	94	98	93	89	92	93	87	42	16	14	5
16	3	1	21	53	43	48	25	57	82	96	123	135	141	139	140	140	138	127	120	98	58	17	34	55
17	79	61	64	61	84	74	45	67	91	101	118	120	124	139	143	131	141	121	103	95	84	86	88	82
18	56	57	83	83	58	42	49	53	78	96	127	136	***	***	***	115	118	136	136	133	114	100	91	80
19	83	80	74	66	40	27	27	30	33	24	29	52	74	85	89	89	87	90	85	80	82	74	72	42
20	41	39	36	33	31	29	22	25	48	35	38	65	66	52	57	58	57	49	33	8	0	0	8	34
21	50	54	55	51	46	37	35	41	47	49	48	54	59	58	52	48	46	45	38	31	30	24	21	22
22	25	25	24	25	27	24	22	29	36	40	***	51	53	56	55	54	58	51	27	15	35	38	45	48
23	46	88	87	66	51	40	27	26	36	43	47	52	57	61	61	61	60	54	43	18	40	38	37	41
24	47	40	42	43	41	38	15	27	73	56	68	78	71	70	72	77	81	81	78	72	64	52	50	46
25	41	35	27	26	26	27	29	28	34	39	9	***	32	32	33	33	33	31	33	32	23	19	19	21
26	23	26	27	22	29	32	33	30	40	43	46	50	51	58	65	61	59	63	45	38	16	2	3	3
27	2	6	19	29	33	19	22	39	47	47	55	74	96	98	98	94	81	67	54	32	33	30	32	27
28	29	36	29	27	27	20	15	27	36	38	38	***	***	46	46	46	46	45	44	36	21	22	19	29
29	30	34	32	31	30	30	29	34	36	37	49	54	58	73	75	64	59	43	52	27	4	18	18	15
30	17	28	35	36	35	19	11	17	***	***	***	***	***	***	***	110	118	116	112	90	89	79	45	48
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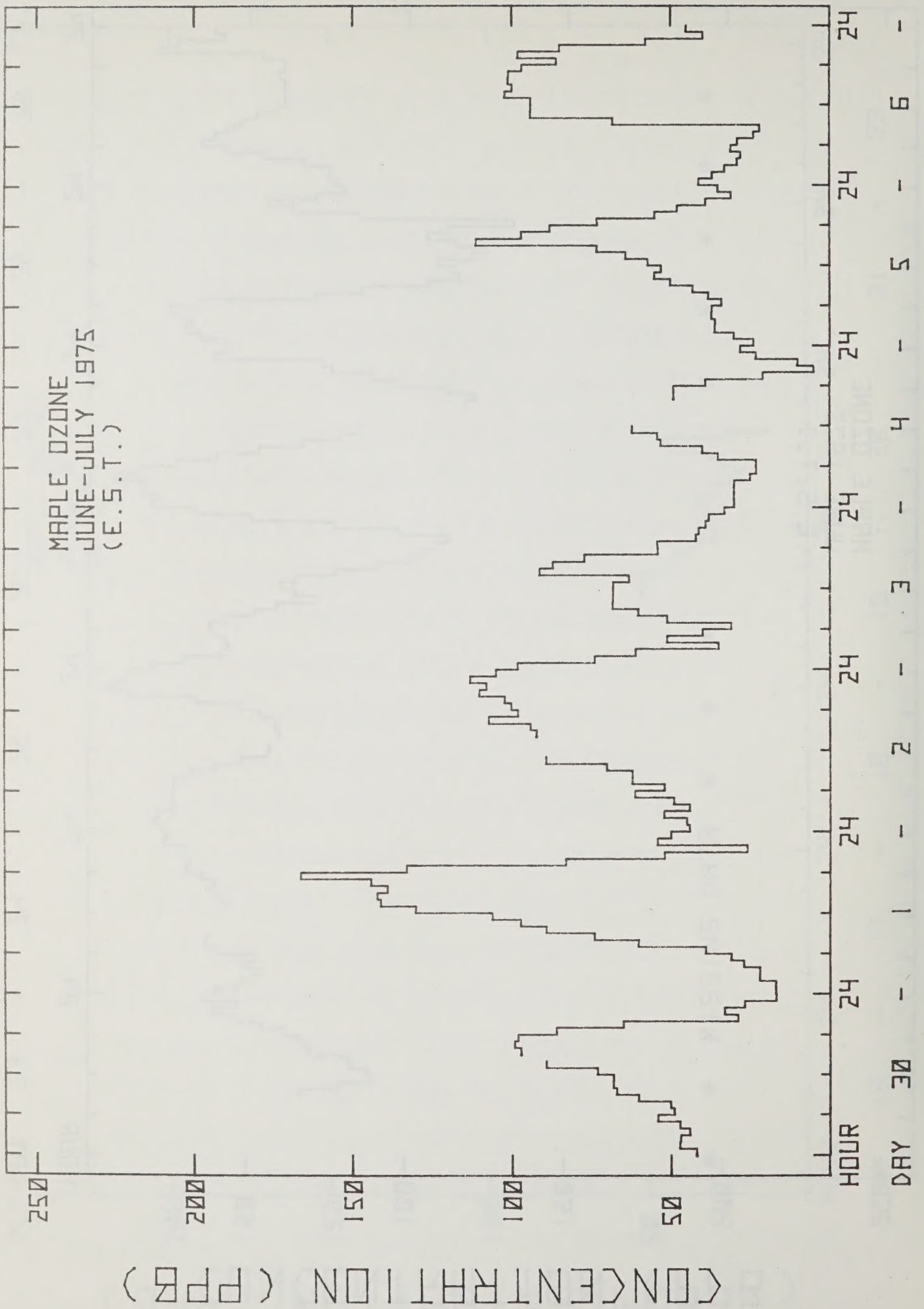
HOURLY-AVERAGED OZONE CONCENTRATION (PPB)

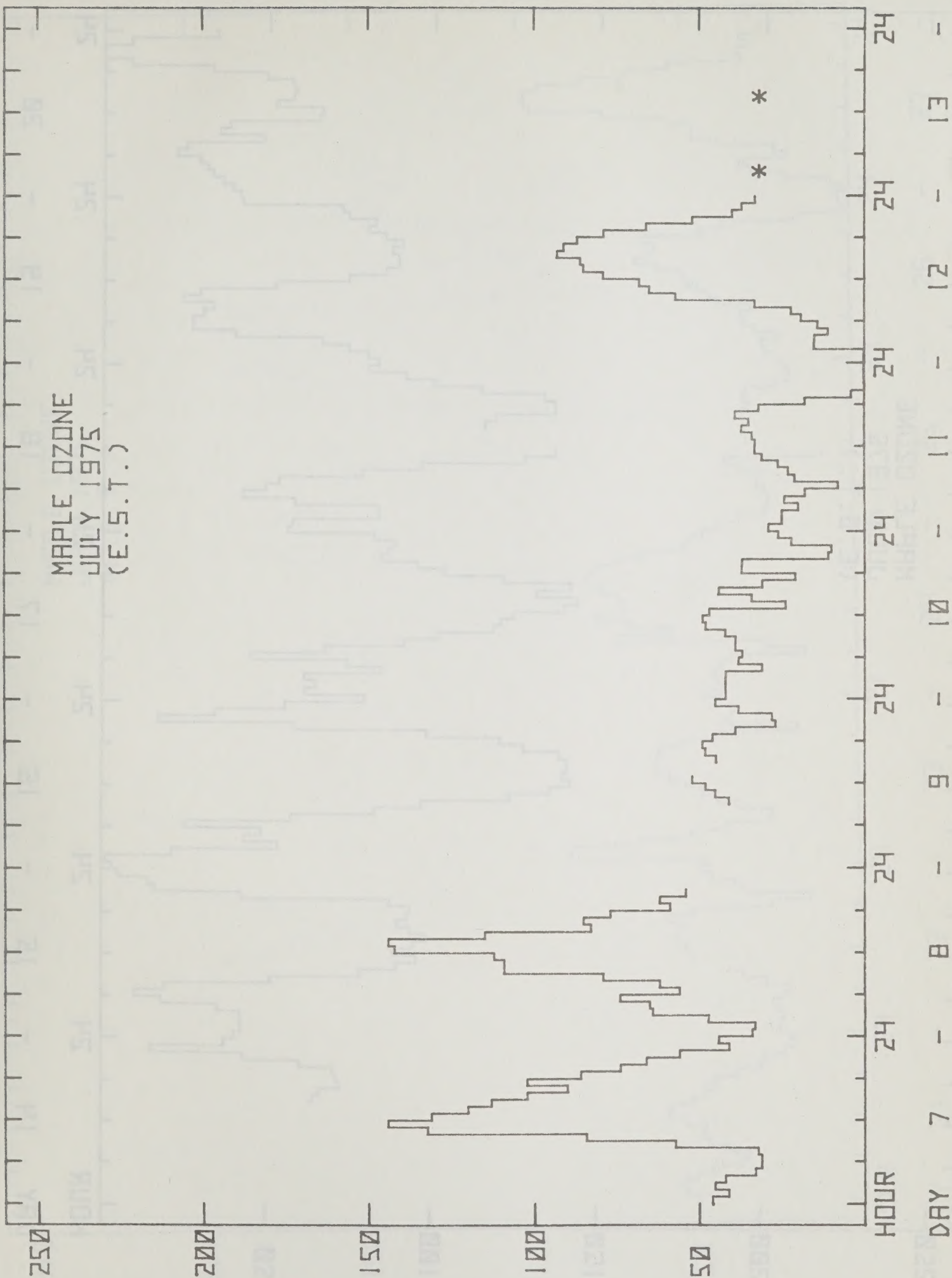
MAPLE, SEPTEMBER 1975

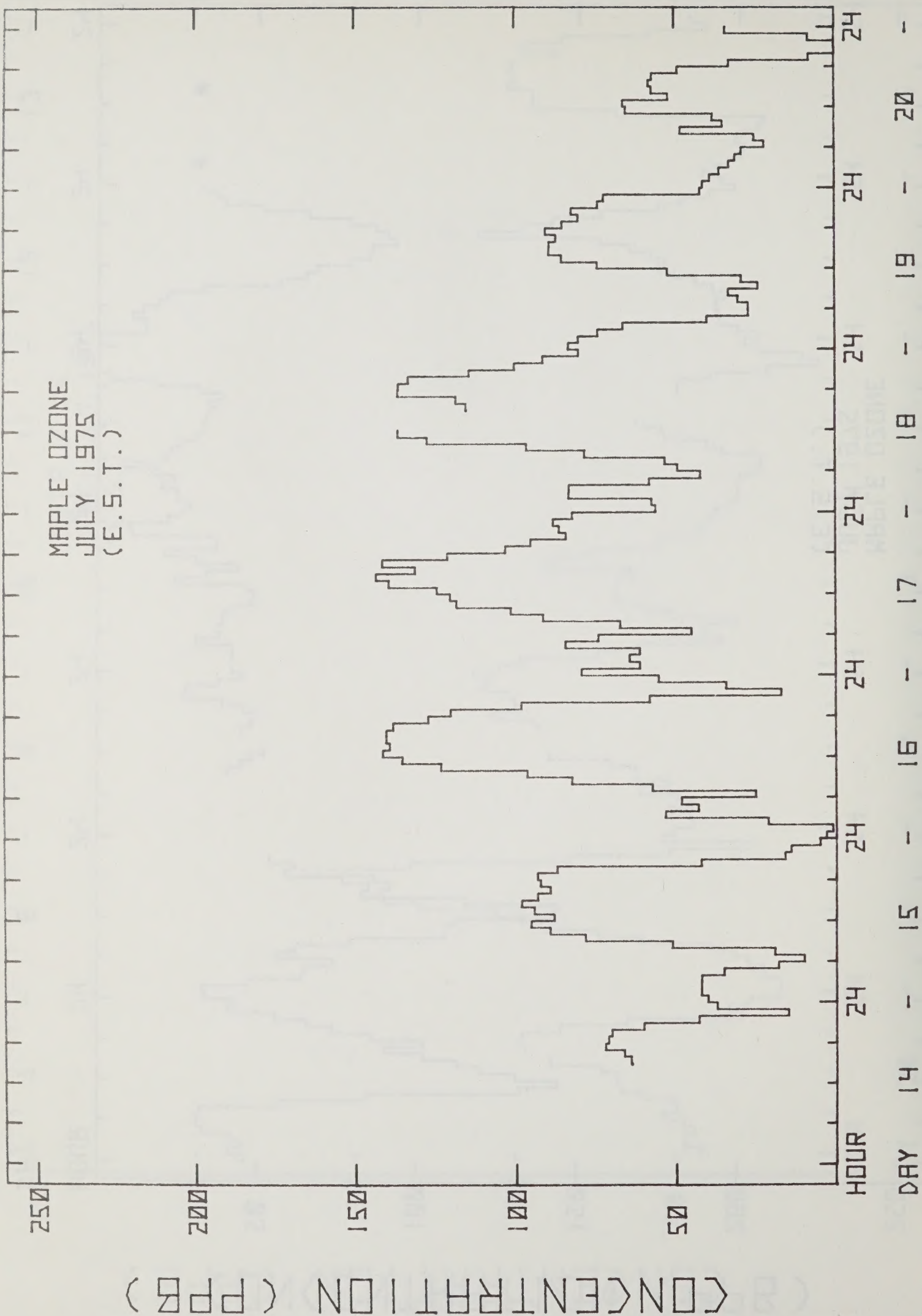
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
3	4	5	4	8	10	10	10	13	15	17	16	18	22	25	22	18	17	16	14	14	13	10	4	5
4	0	0	2	4	7	10	12	18	25	26	25	25	28	28	***	***	22	12	5	0	0	0	1	0
5	12	10	10	12	13	9	21	17	18	23	29	30	21	17	15	33	4	27	24	11	20	23	21	13
6	19	21	17	16	17	12	17	22	31	35	36	36	35	36	34	35	35	4	32	30	24	22	17	18
7	18	14	12	11	13	20	21	21	21	22	27	30	33	36	40	37	39	41	31	21	13	15	17	17
8	9	8	19	17	28	20	5	23	31	31	33	33	32	33	32	30	30	26	23	23	25	25	25	27
9	27	24	22	23	24	15	3	12	24	28	29	31	33	34	38	37	36	32	29	21	18	13	15	13
10	11	13	12	17	20	14	14	10	22	27	26	12	14	8	16	***	29	28	15	4	0	0	0	0
11	0	0	1	2	5	6	5	5	6	22	28	43	***	***	***	40	35	35	34	28	28	61	45	41
12	37	35	34	31	29	25	15	8	***	***	24	26	27	27	28	27	27	23	15	5	17	18	21	19
13	11	15	18	21	11	11	11	16	20	23	29	32	34	36	38	39	38	37	31	17	10	14	18	22
14	16	12	20	22	21	16	24	26	26	29	31	31	30	31	31	29	33	33	11	1	2	1	1	4
15	3	5	5	3	8	2	5	6	2	0	0	***	***	***	***	***	***	***	***	***	***	***	***	***
16	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
17	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
18	58	65	65	65	60	52	41	30	32	34	34	34	35	36	40	43	61	45	29	59	60	50	56	55
19	31	27	25	20	16	8	1	2	26	29	31	32	45	63	75	69	45	45	42	41	40	38	38	35
20	30	21	9	4	5	7	24	36	35	36	35	33	38	44	47	49	55	44	11	1	0	7	27	39
21	32	23	11	11	8	11	9	6	7	13	17	23	29	28	29	25	23	26	16	22	18	23	20	28
22	14	14	13	11	8	7	2	3	8	14	21	29	32	27	24	21	18	18	23	24	24	13	14	14
23	2	2	5	7	6	3	2	5	20	28	30	33	35	38	38	34	33	29	16	15	15	20	23	24
24	24	23	21	21	24	23	18	17	22	25	25	25	25	27	31	32	34	32	22	18	24	26	27	29
25	28	26	24	25	27	26	23	20	21	24	23	23	23	21	19	19	16	14	12	12	10	10	10	11
26	11	10	12	12	11	7	3	3	3	3	6	8	9	11	14	11	16	16	22	17	15	15	14	9
27	10	22	31	28	22	20	11	9	11	22	27	***	***	***	30	27	33	34	26	19	14	21	23	26
28	26	23	29	32	33	32	30	29	32	36	38	42	47	50	50	51	50	28	9	13	4	2	3	8
29	18	26	28	28	29	20	14	18	30	40	41	47	51	61	71	70	66	55	26	23	29	35	43	54
30	47	37	21	12	27	25	11	8	25	44	57	62	63	63	62	59	57	53	43	21	32	27	25	16
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***



(CONCENTRATION (PPB))

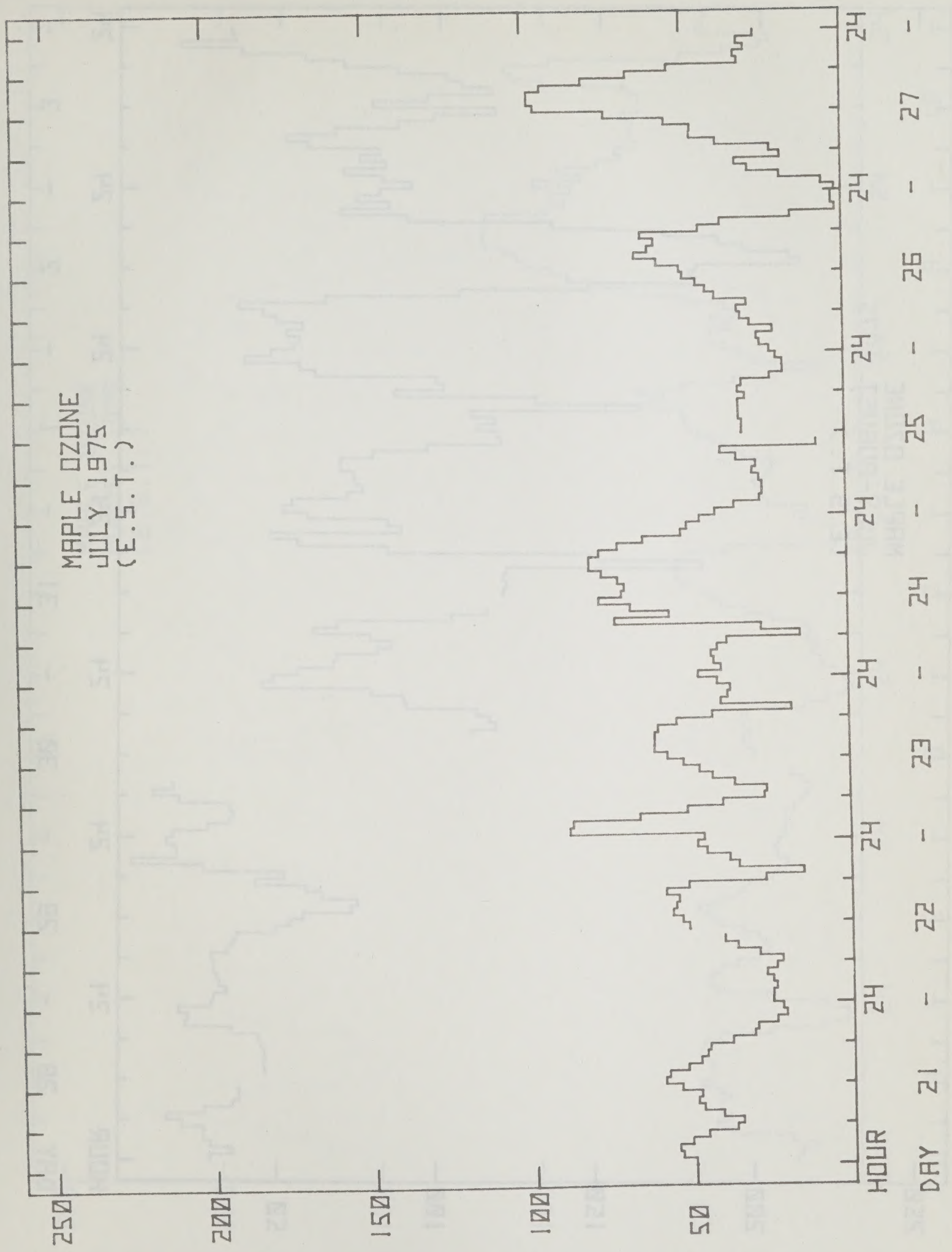


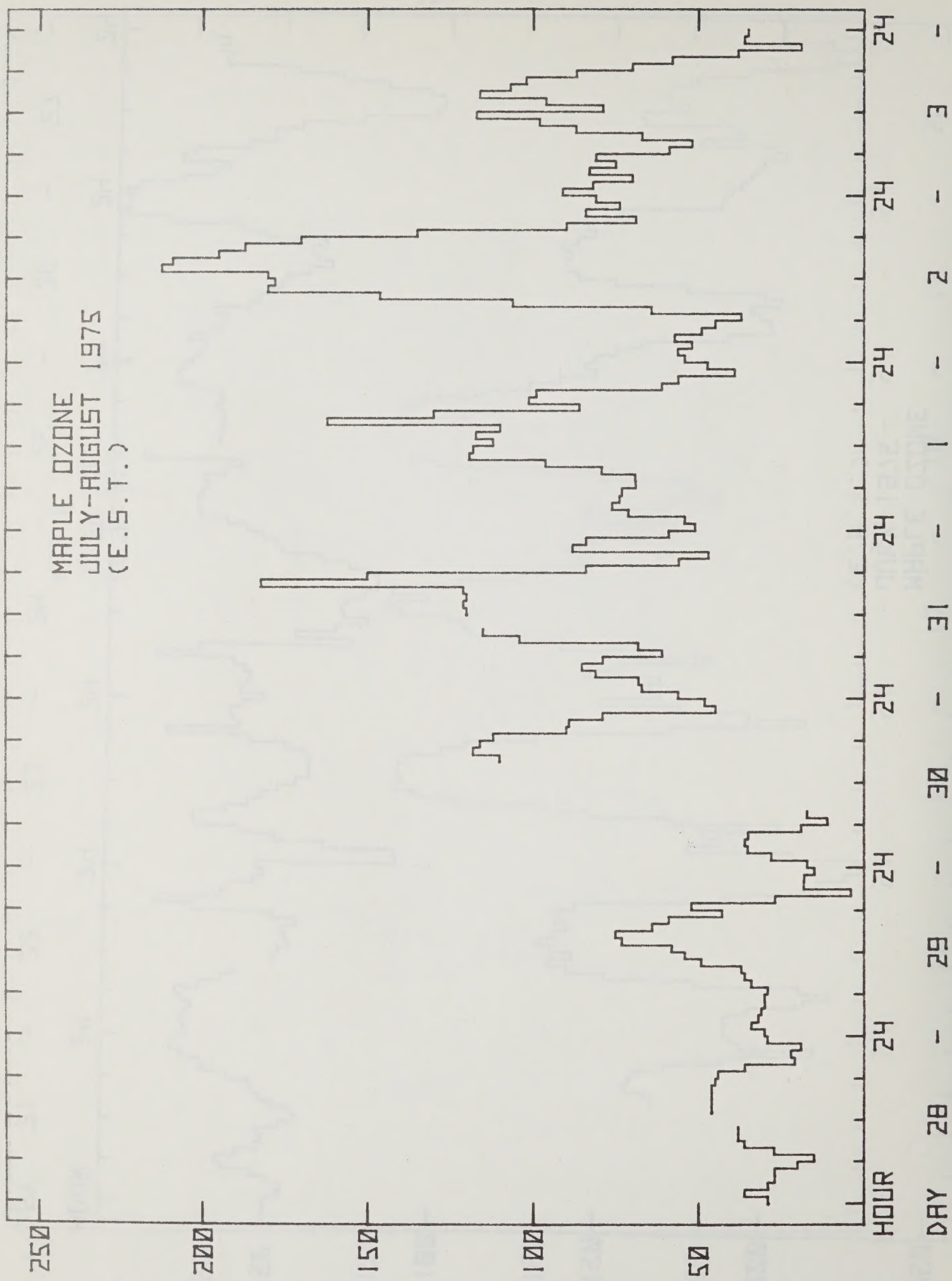




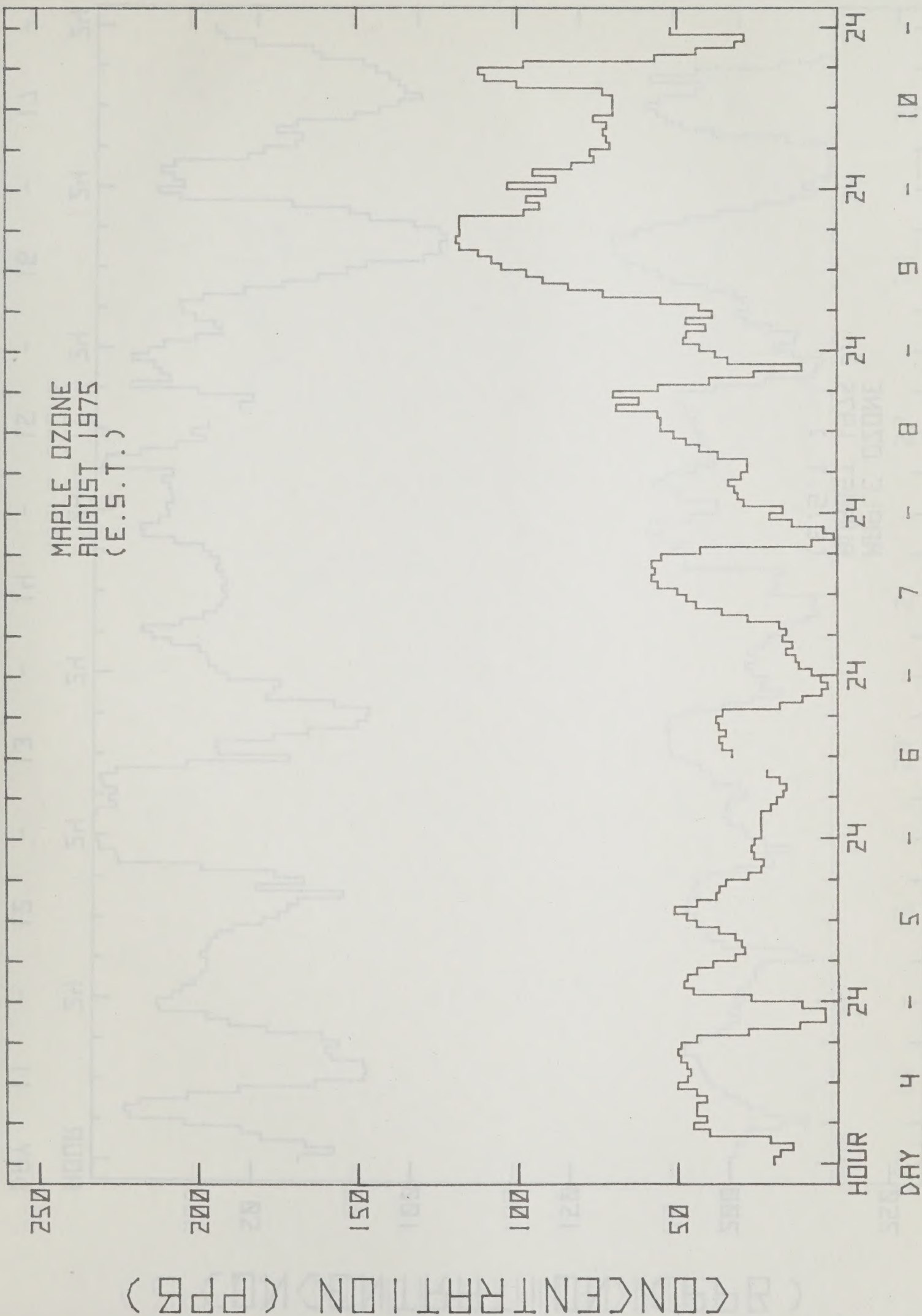
CONCENTRATION (PPB)

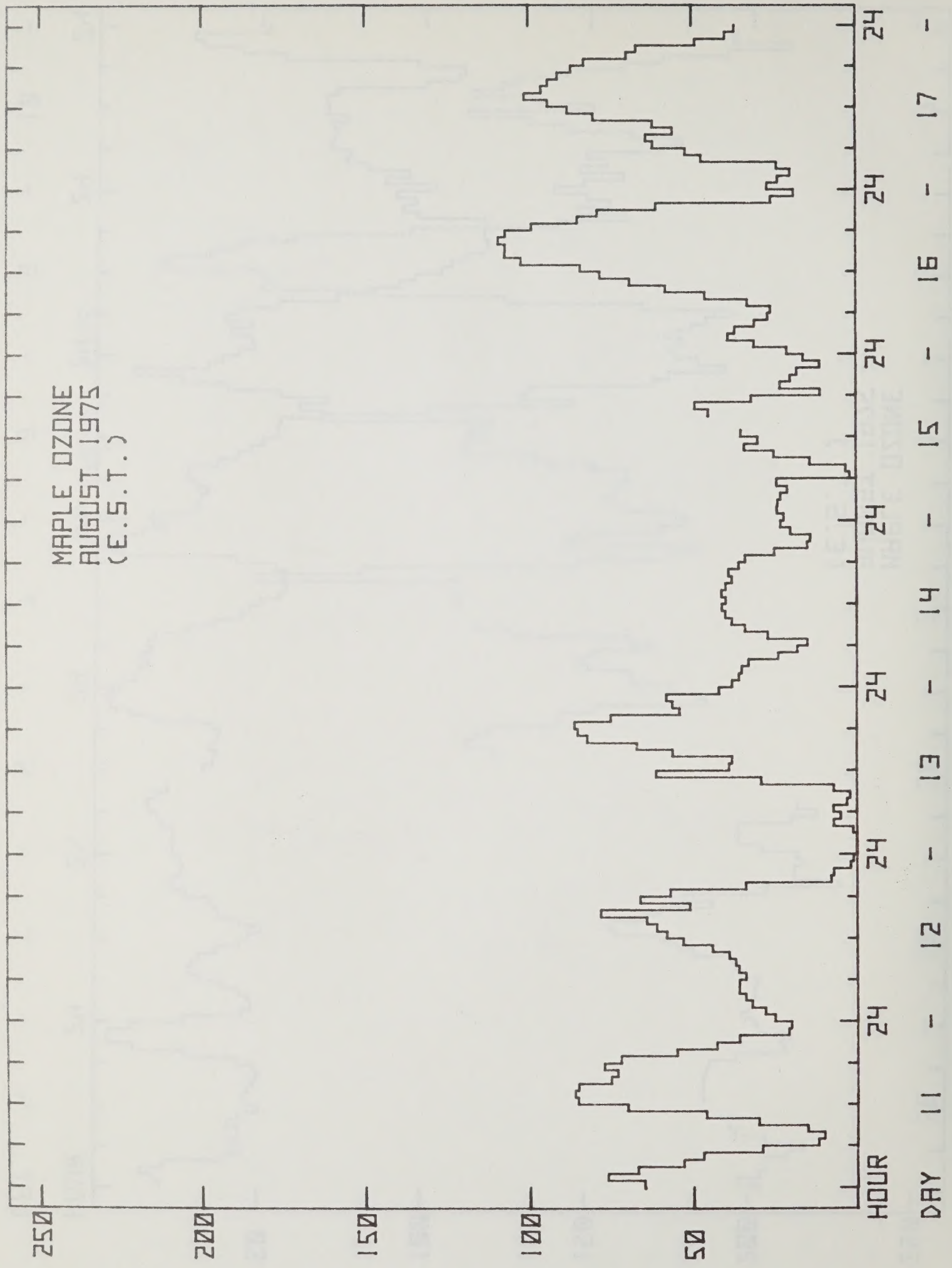
MAPLE OZONE
JULY 1975
(E.S.T.)



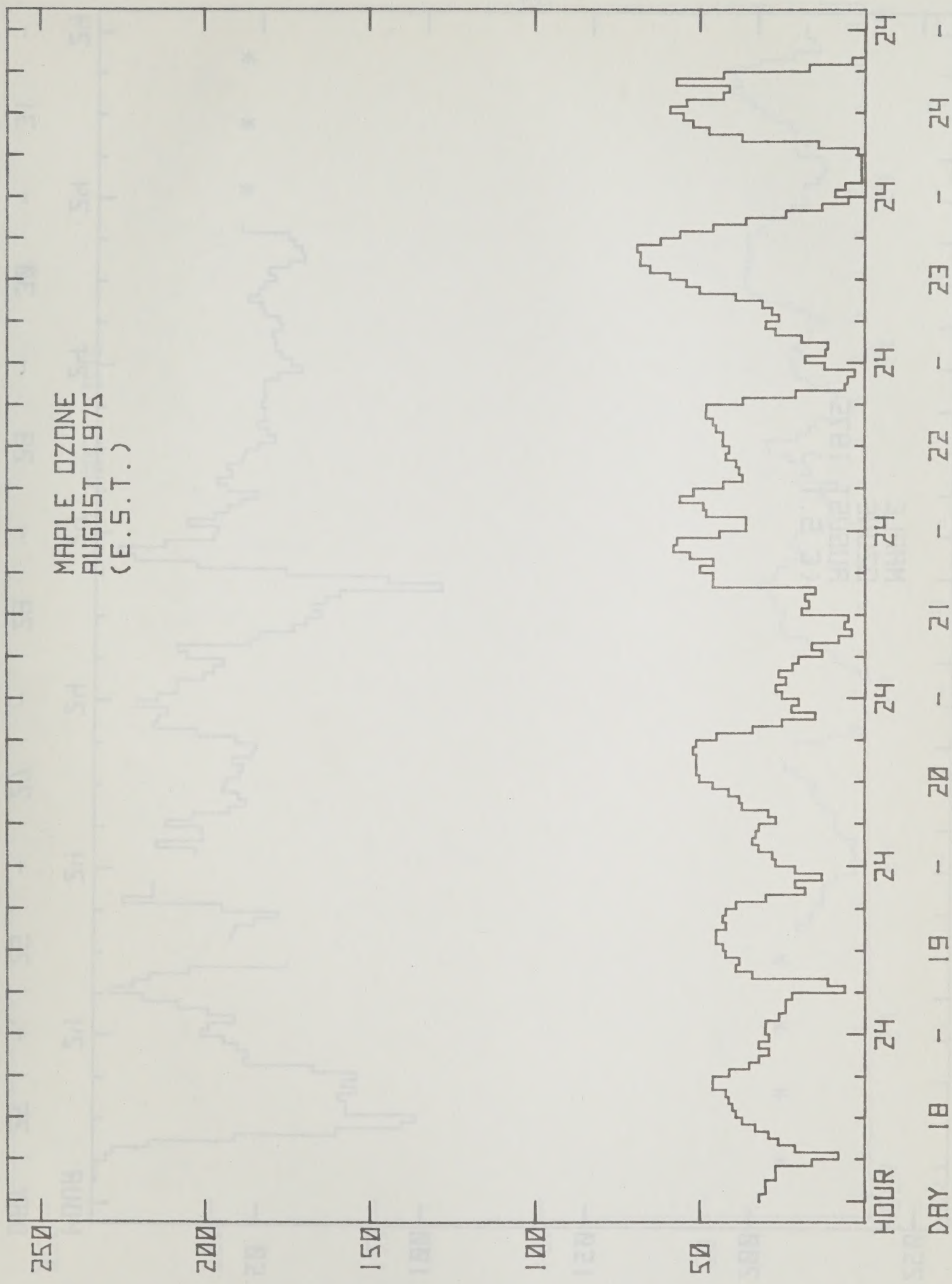


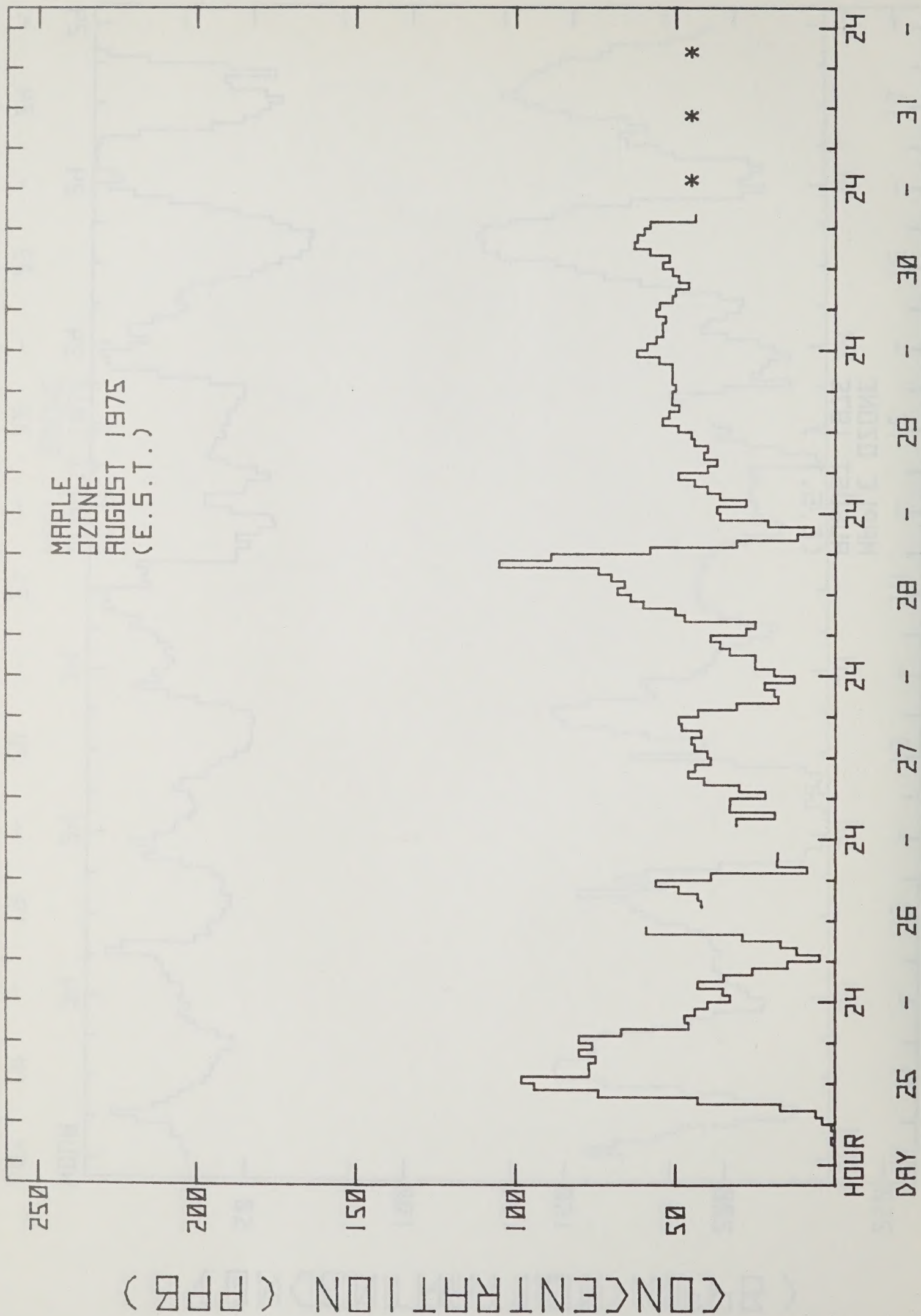
CONCENTRATION (PPB)





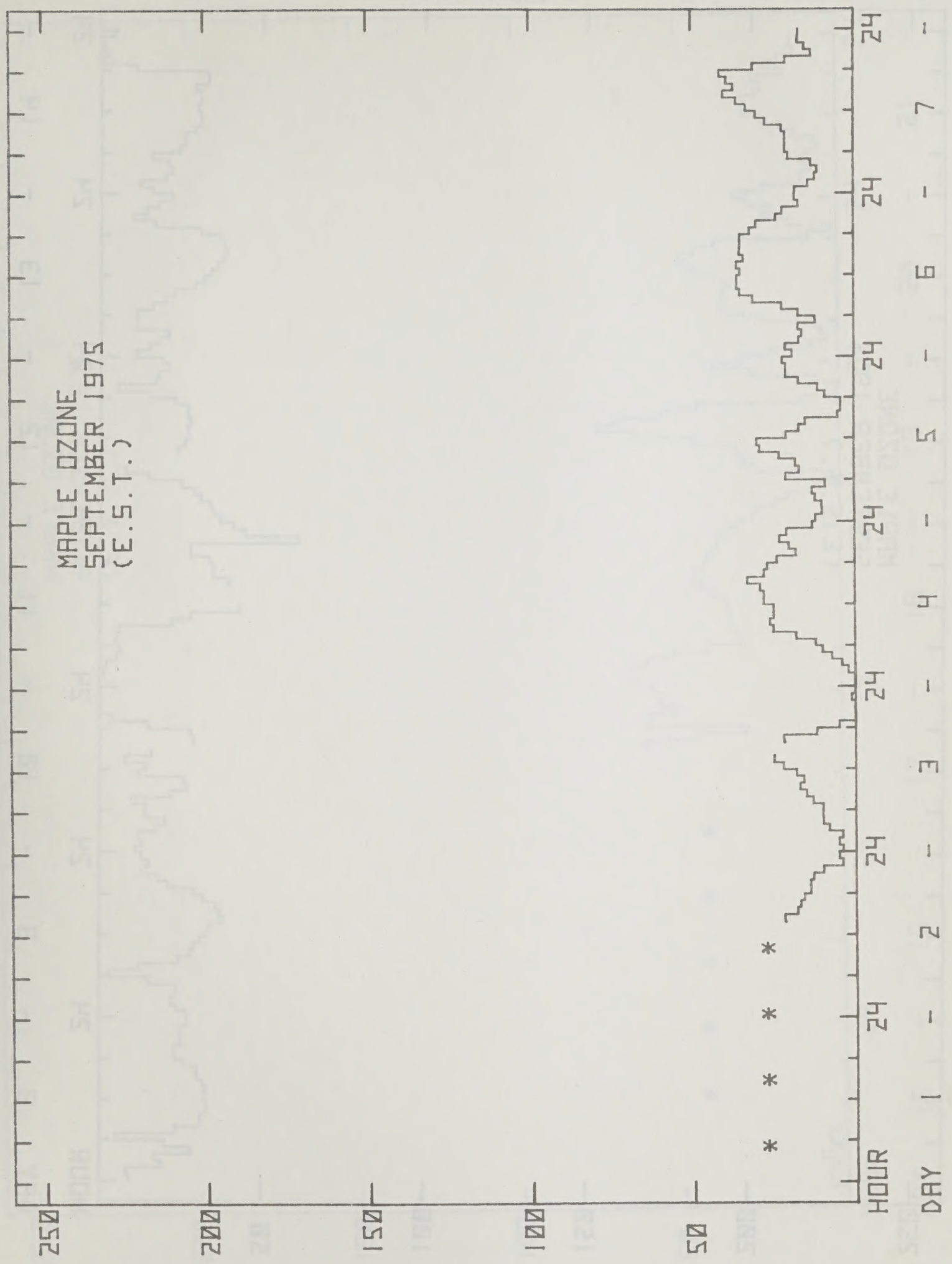
CONCENTRATION (PPB)





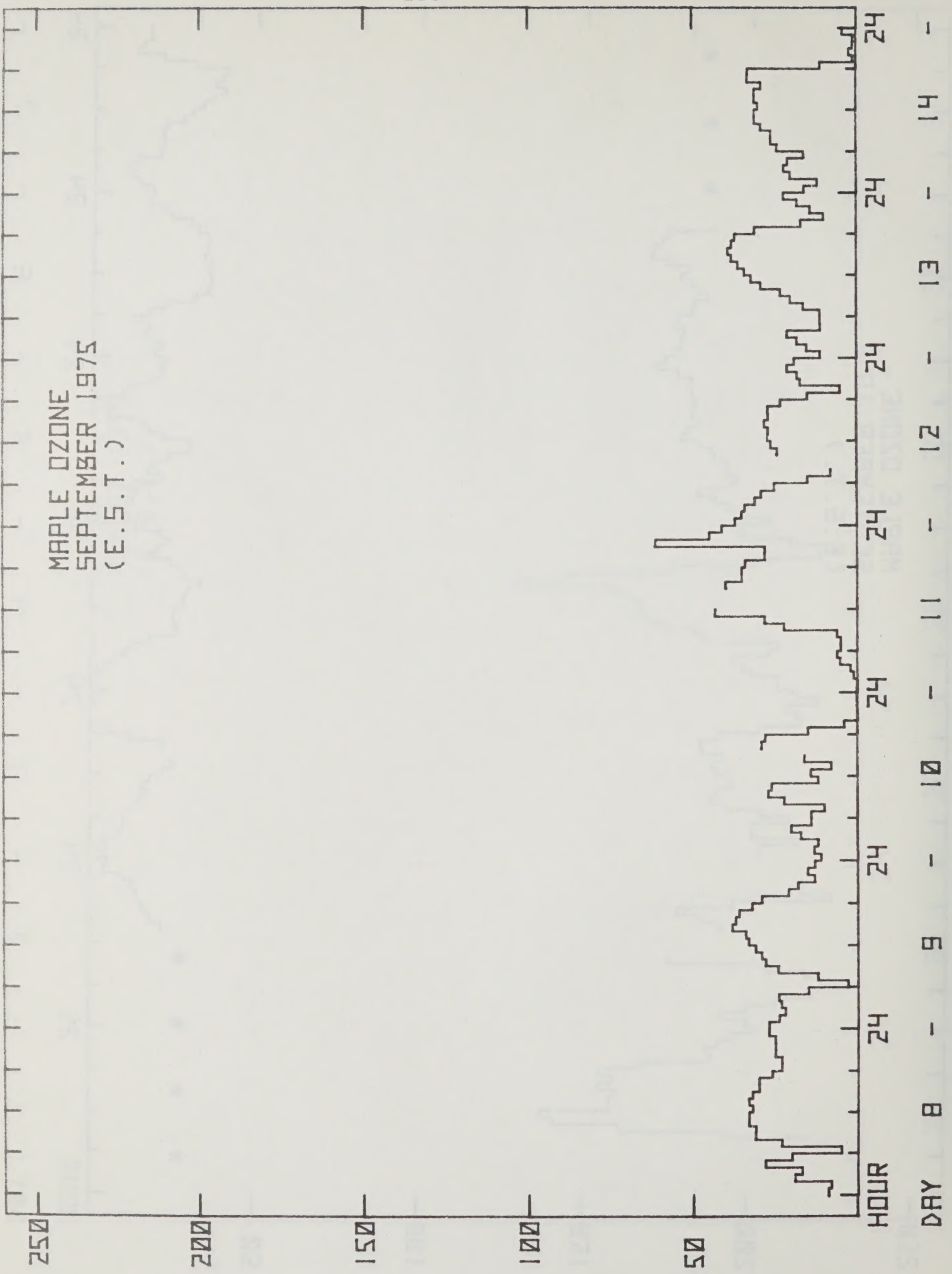
MAPLE OZONE
SEPTEMBER 1975
(E.S.T.)

CONCENTRATION (PPB)



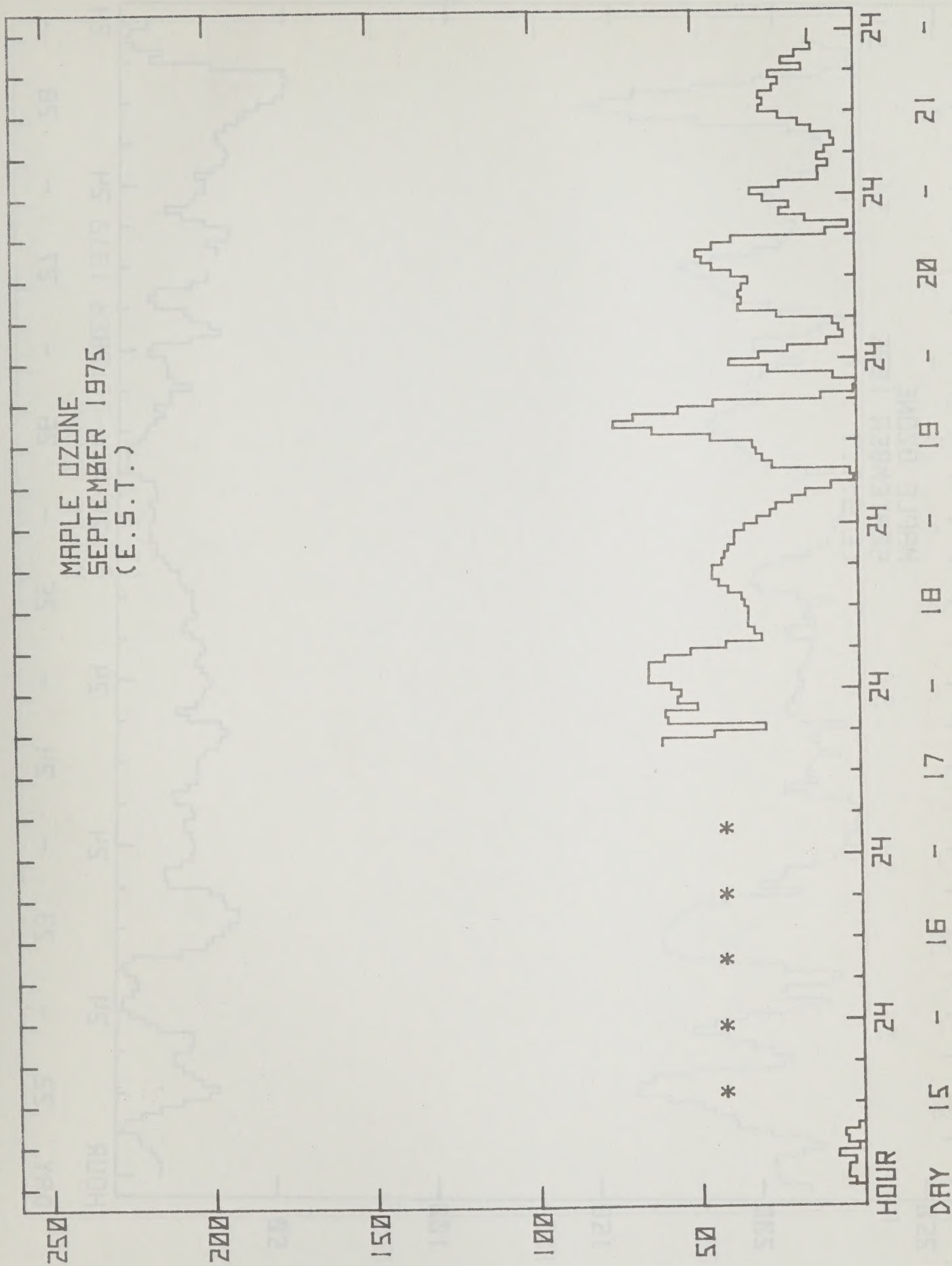
CONCENTRATION (PPB)

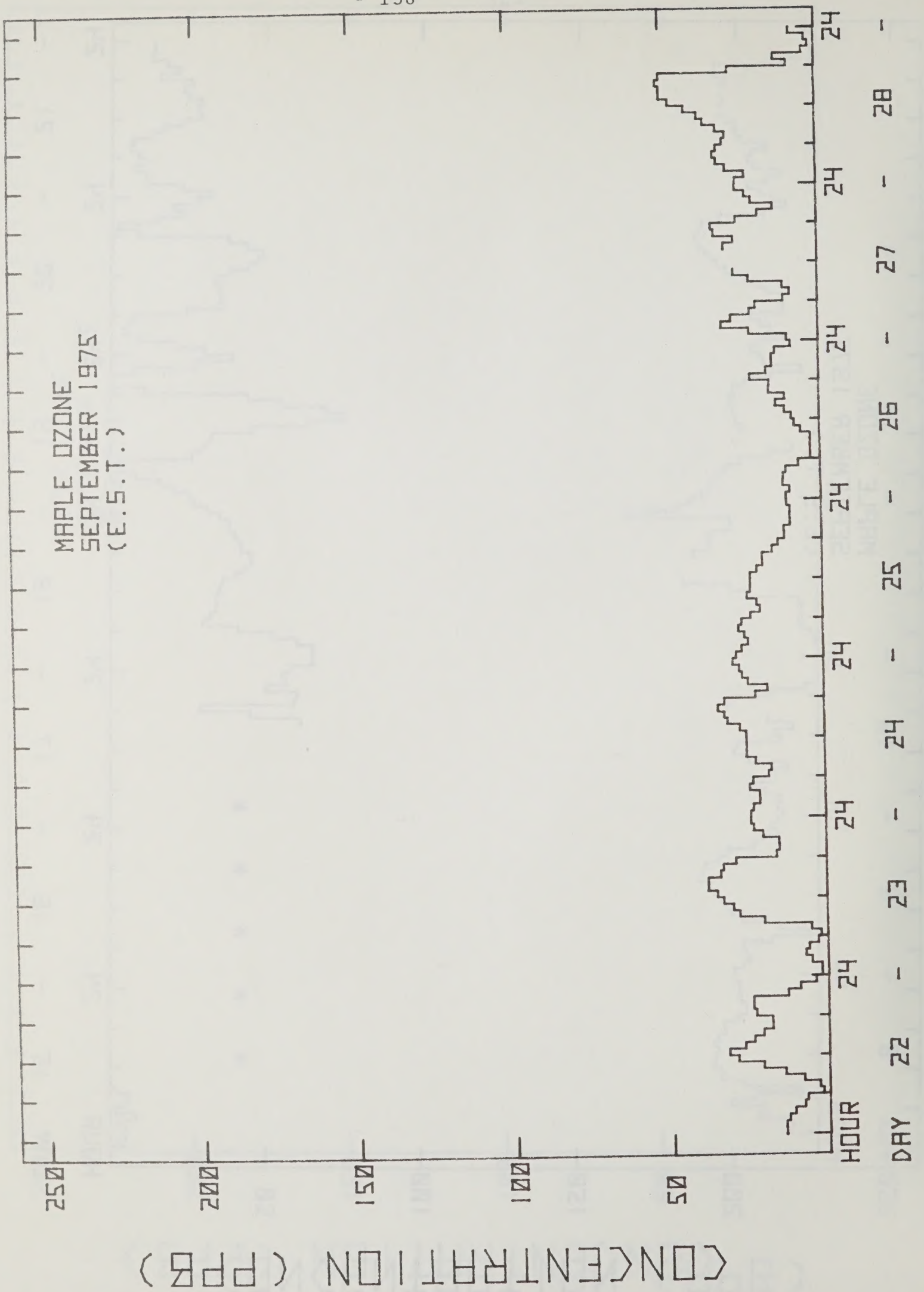
MAPLE OZONE
SEPTEMBER 1975
(E.S.T.)

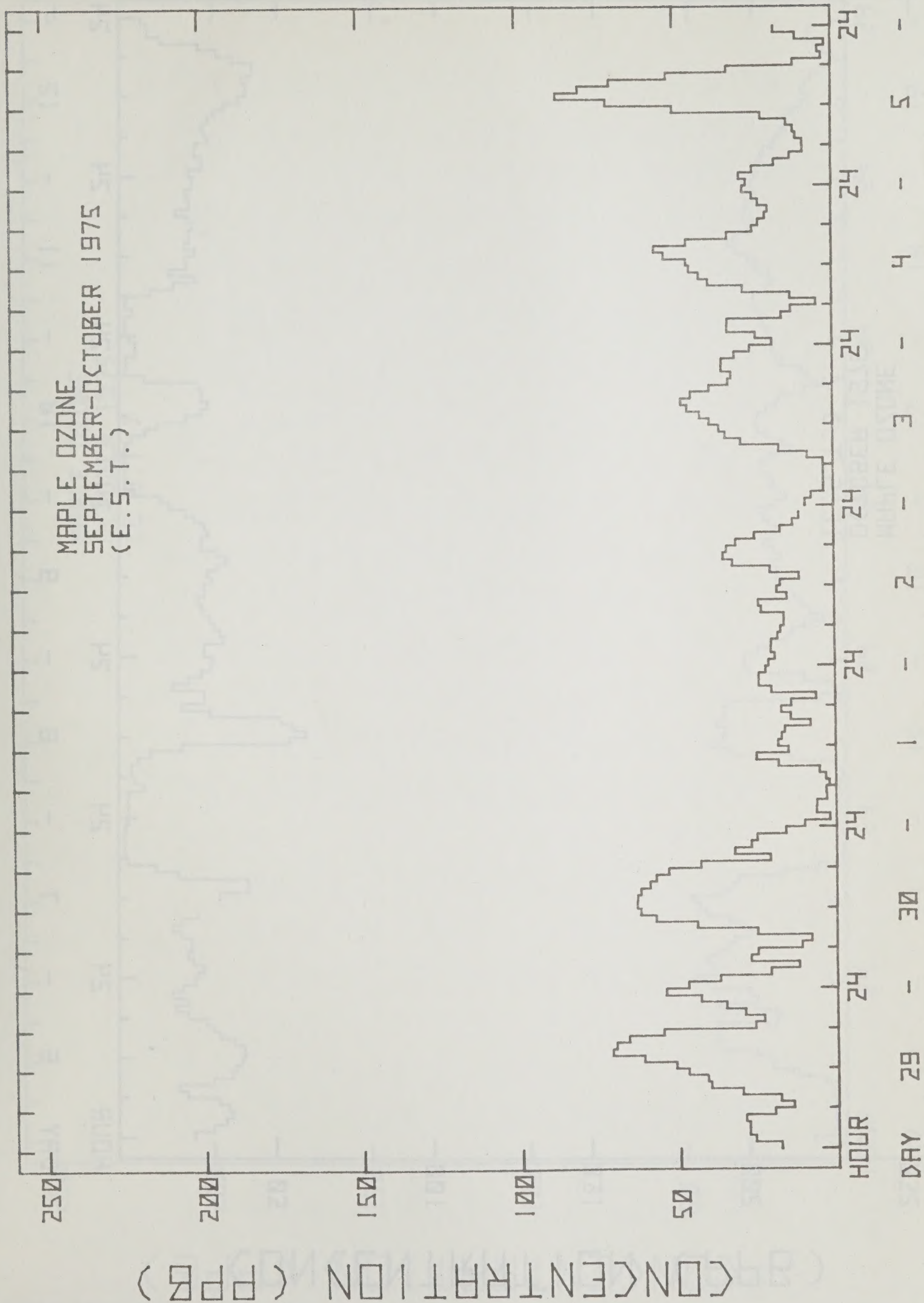


CONCENTRATION (PPB)

MAPLE OZONE
SEPTEMBER 1975
(E.S.T.)

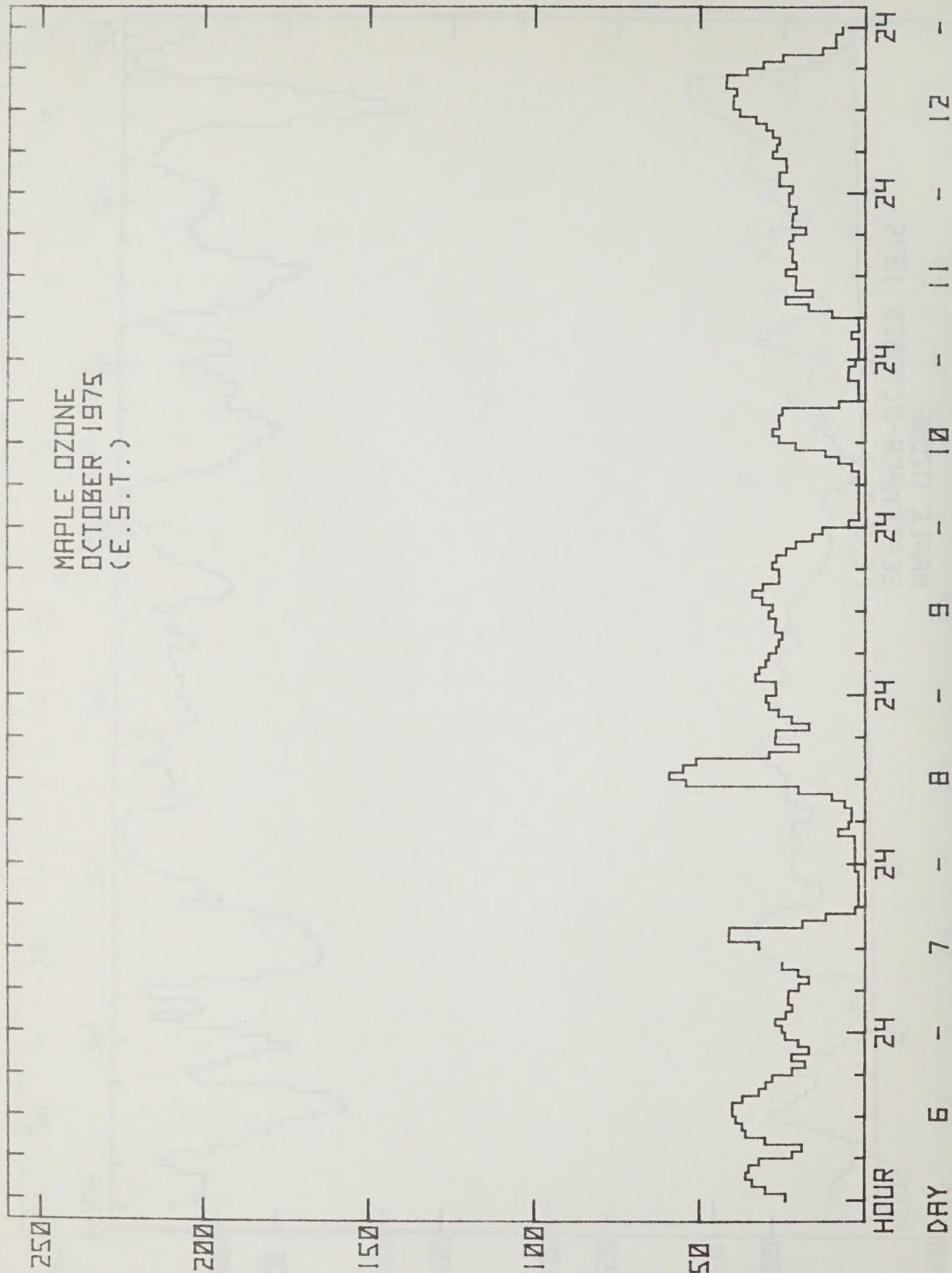


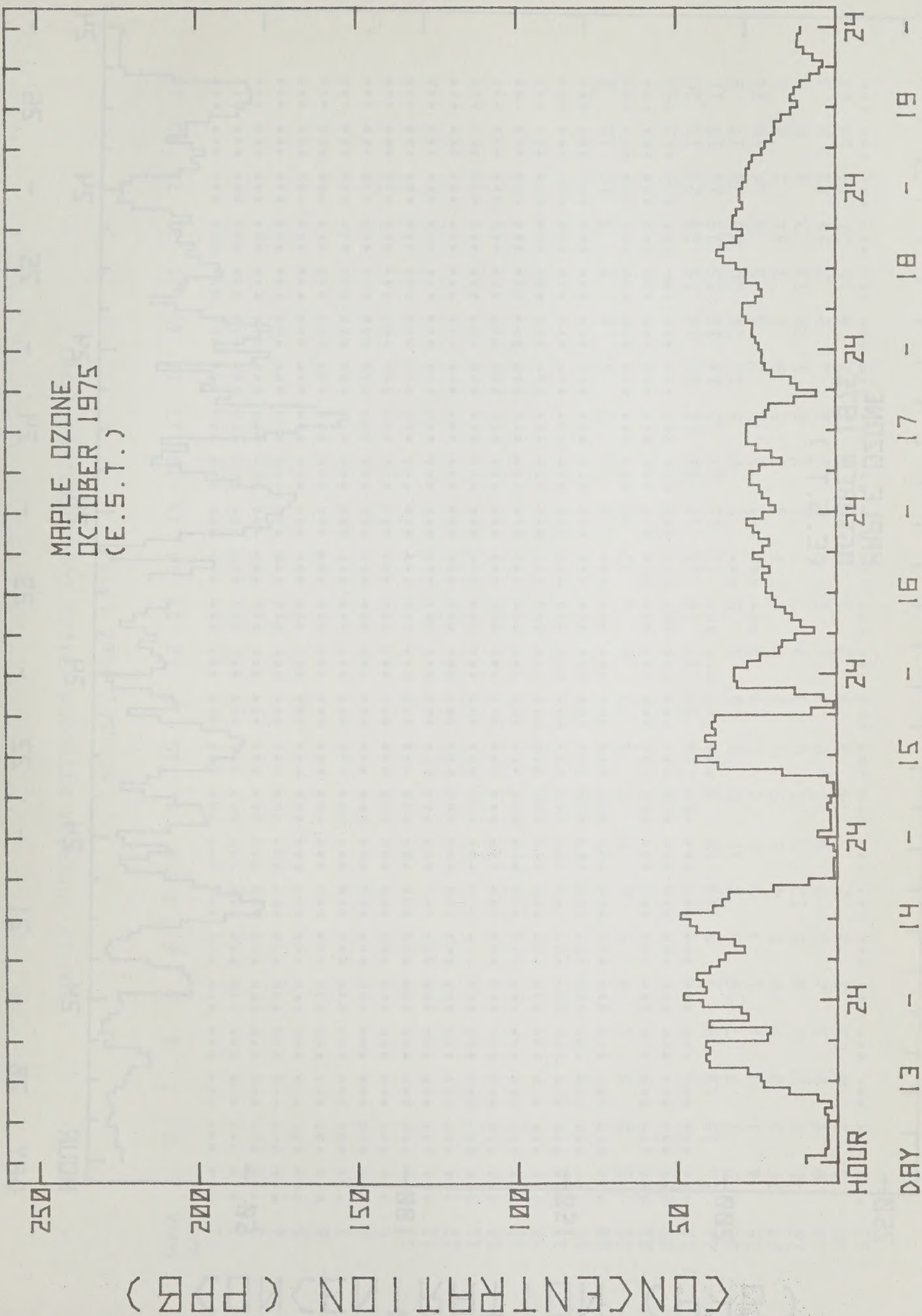


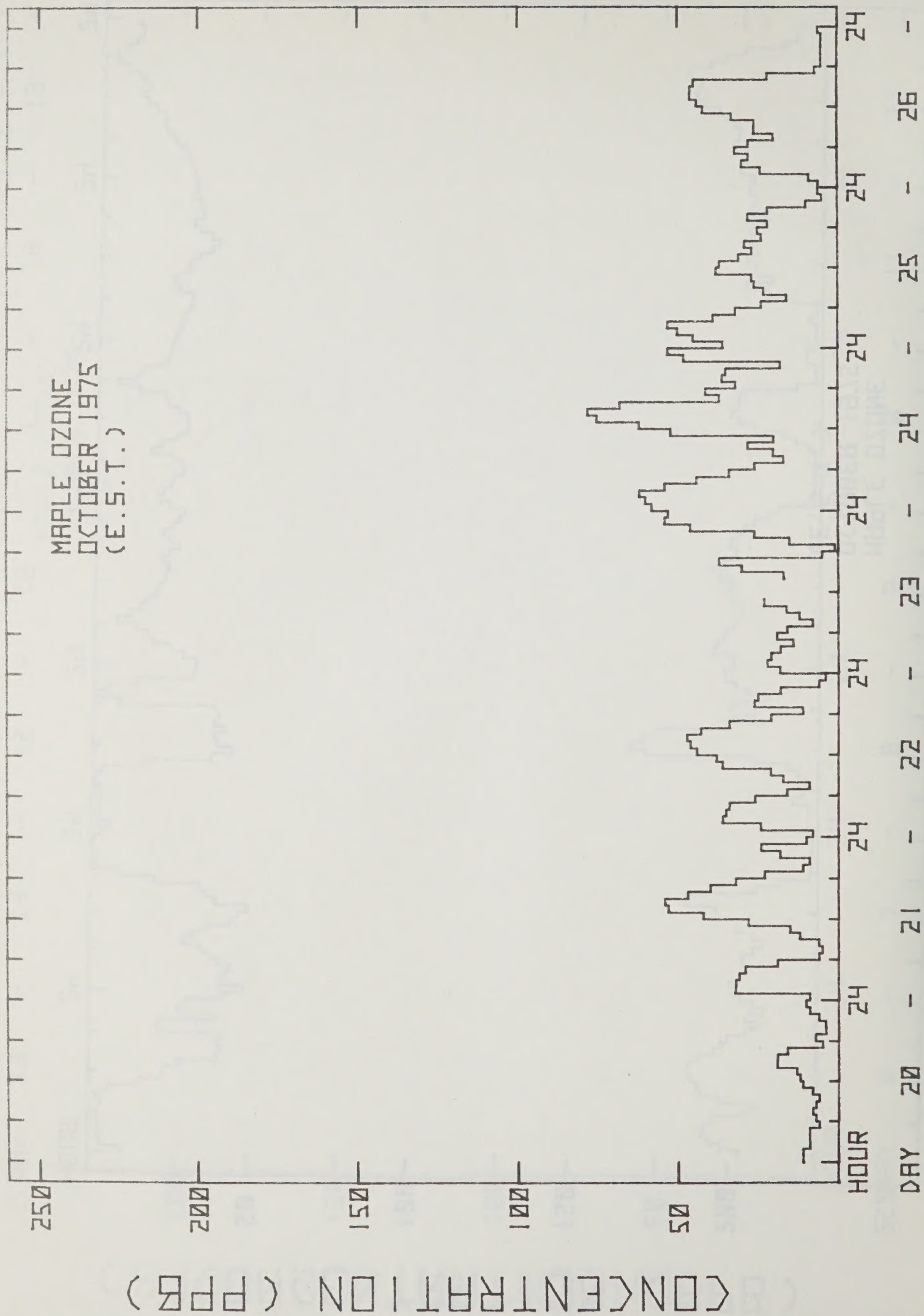


CONCENTRATION (PPB)

MAPLE OZONE
OCTOBER 1975
(E.S.T.)







HOURLY-AVERAGED NITROGEN OXIDES CONCENTRATION (PPB)

MAPLE , JULY 1975

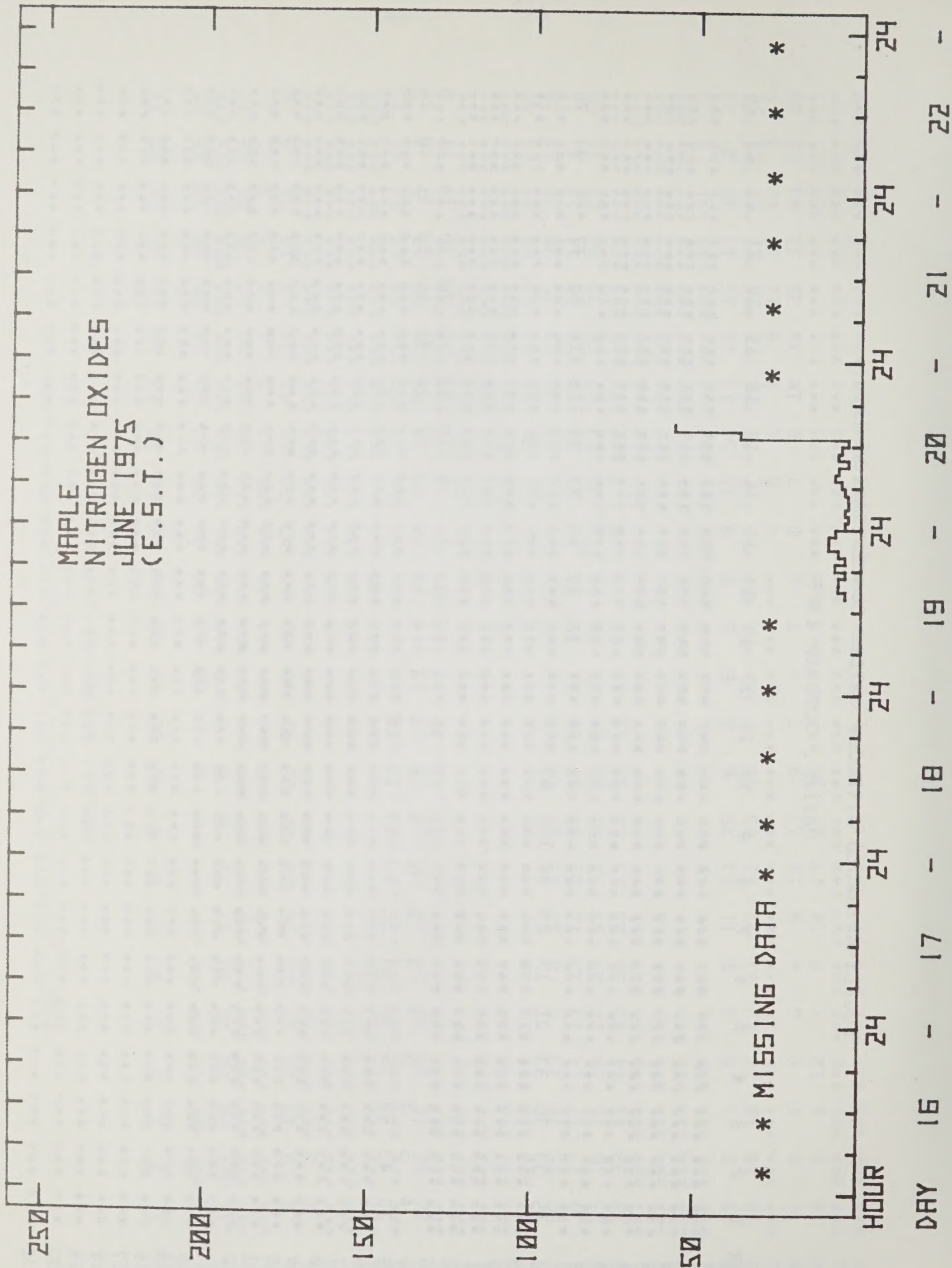
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3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
8	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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10	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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12	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
13	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
14	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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16	42	43	33	15	14	15	50	36	28	30	18	19	18	16	14	24	30	30	32	30	48	47	41	44
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19	18	17	20	19	27	31	30	28	27	33	29	15	***	***	***	***	***	***	***	***	***	***	***	***
20	14	13	13	12	12	12	17	22	14	25	19	13	11	11	5	3	5	13	25	57	94	81	49	19
21	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
22	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
23	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
24	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
25	11	8	7	7	7	9	10	11	8	7	***	***	6	5	5	10	6	6	8	12	13	13	13	12
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27	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
28	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
29	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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31	16	10	8	7	6	14	26	28	14	8	***	***	2	3	5	5	18	28	10	10	18	14	10	9

MAPLE, AUGUST 1975

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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5	17	7	4	2	1	3	5	6	6	5	3	4	3	2	3	4	2	2	2	5	6	3	1	0
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7	6	4	6	10	10	7	10	13	8	6	4	5	4	4	7	7	4	6	16	63	58	41	19	7
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9	16	11	13	15	11	16	26	24	17	15	8	4	3	3	2	2	3	3	5	8	15	13	13	15
10	11	16	7	7	7	9	9	8	8	8	9	9	6	4	4	6	10	14	21	40	41	41	38	21
11	16	8	6	6	7	10	34	59	67	39	26	***	***	***	***	***	***	***	***	***	***	***	***	***
12	48	50	47	46	28	28	37	67	102	67	30	25	42	47	22	33	47	33	27	36	52	41	57	54
13	4	3	2	2	4	13	21	11	6	6	6	7	5	2	4	17	7	3	3	6	16	12	6	5
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19	4	4	3	3	4	5	10	13	8	9	8	7	4	3	2	4	1	0	2	6	11	16	13	10
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22	11	11	9	6	5	3	6	10	15	20	14	8	2	1	0	2	4	7	4	15	17	23	27	27
23	22	21	33	35	37	49	41	28	19	95	7	5	2	0	3	2	3	21	42	49	61	54	54	60
24	57	57	61	65	62	59	55	75	71	39	42	30	19	9	4	5	0	0	0	2	6	4	11	14
25	19	16	8	9	15	23	46	40	36	29	12	***	***	***	0	3	2	0	7	26	18	20	***	***
26	***	***	***	***	***	***	***	***	***	***	2	2	2	1	0	6	2	1	2	5	10	10	13	18
27	9	4	5	4	2	2	14	29	8	12	7	7	4	1	0	5	17	32	35	35	46	48	33	26
28	24	28	23	20	17	14	19	23	21	***	***	***	***	***	4	5	5	7	5	3	4	4	4	3
29	4	4	4	5	4	4	4	5	4	5	5	5	5	5	4	4	7	13	9	12	13	14	14	12
30	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

CONCENTRATION (PPB)

MAPLE
NITROGEN OXIDES
JUNE 1975
(E.S.T.)



CONCENTRATION (PPB)

MAPLE
NITROGEN OXIDES
JUNE 1975
(E.S.T.)

250

200

150

100

50

HOUR

DAY

23

24

25

26

27

28

29

24

24

24

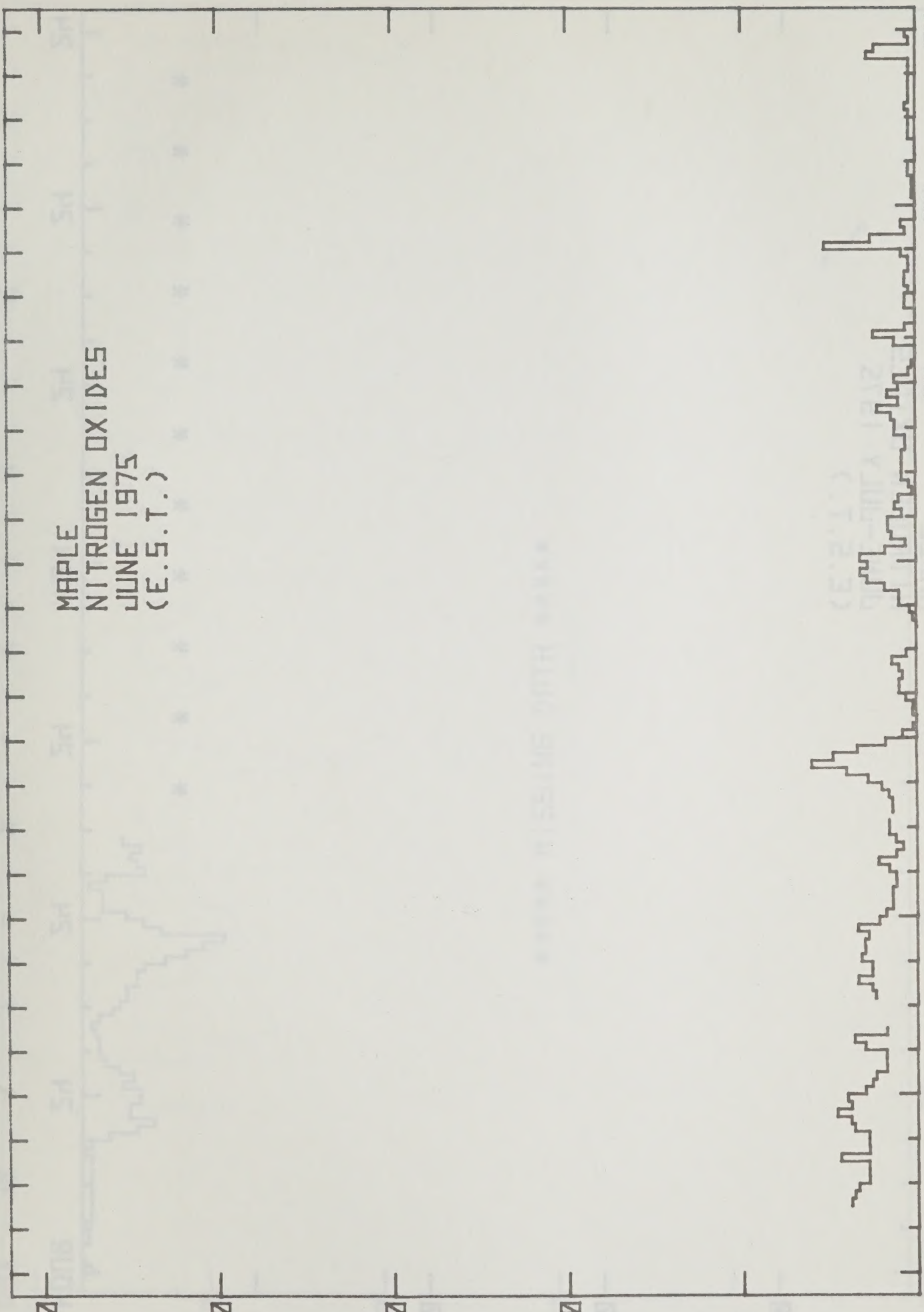
24

24

24

24

24



MAPLE
NITROGEN OXIDES
JUNE-JULY 1975
(E.S.T.)

CONCENTRATION (PPB)

250

200

150

100

50

24
HOUR

DAY

06

-

1

-

2

-

3

-

4

-

5

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6

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24

24

24

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24

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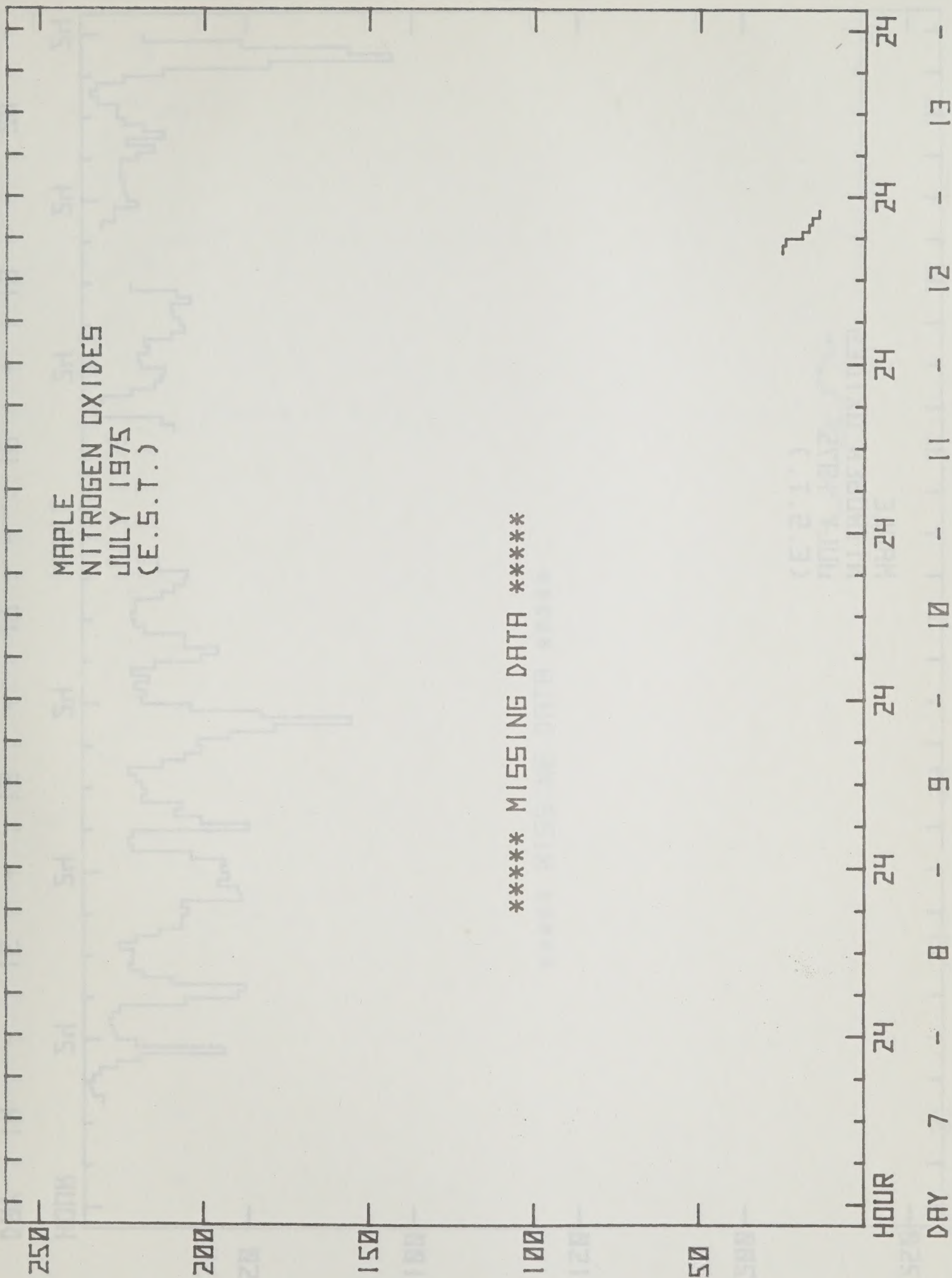
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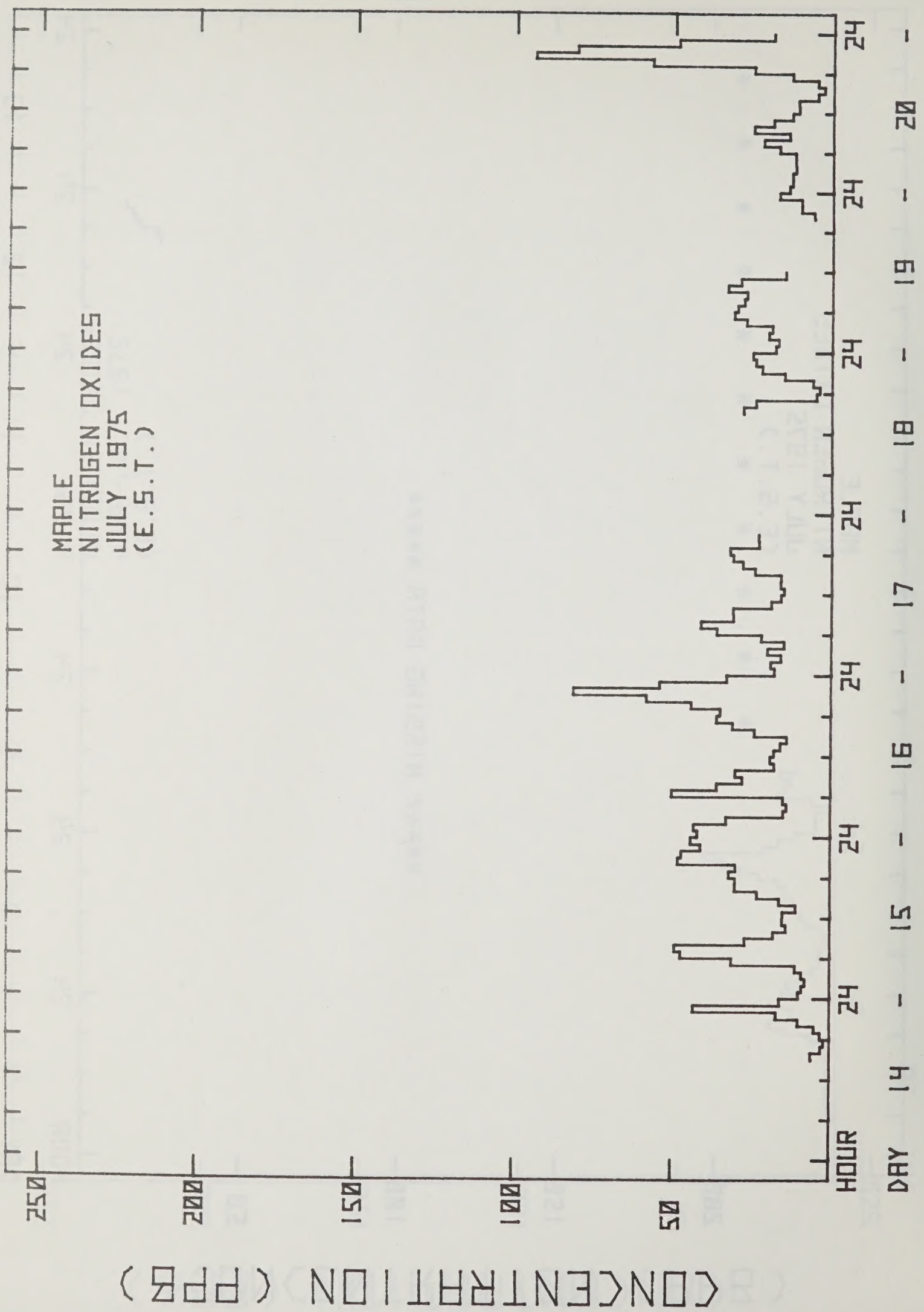
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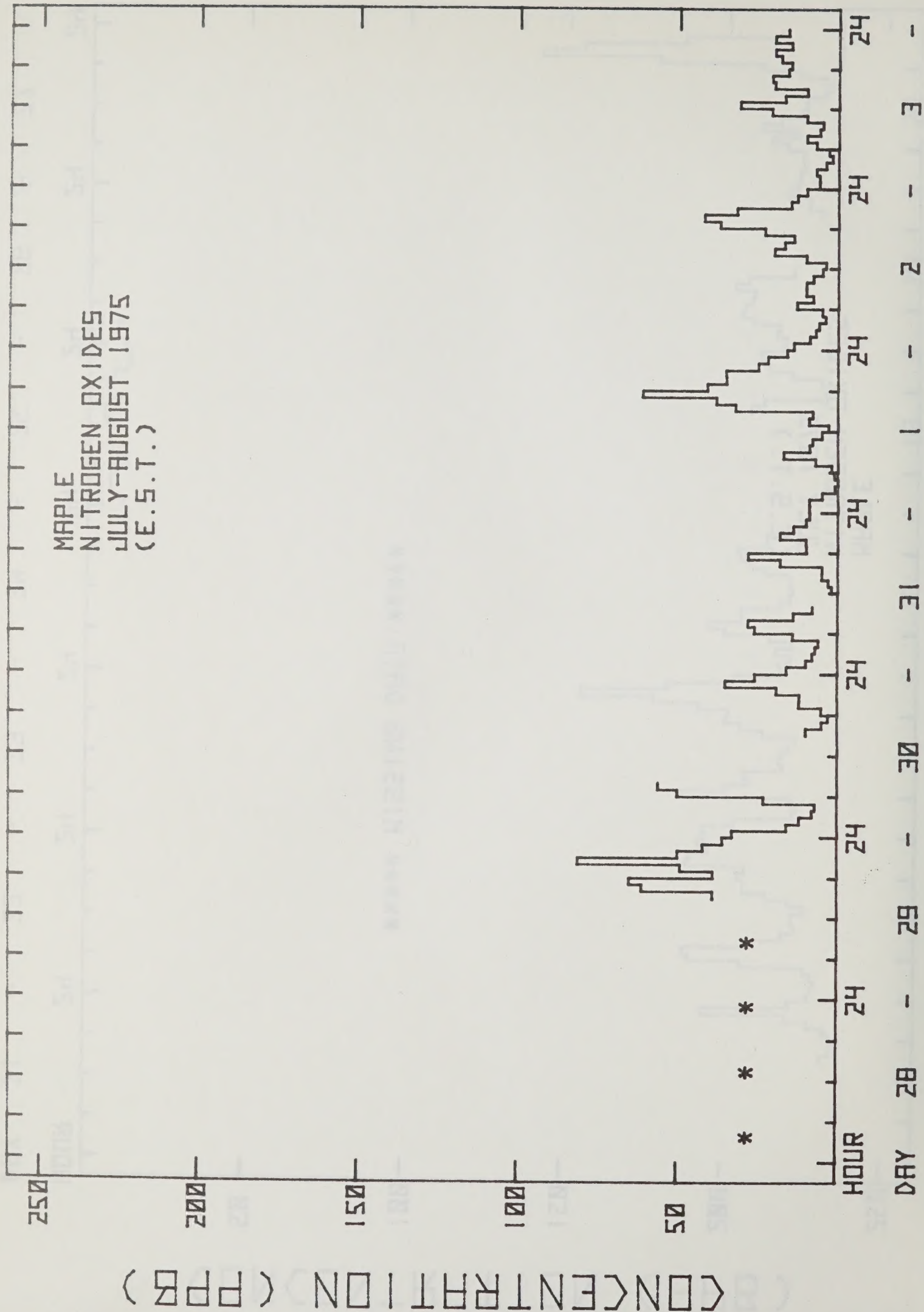


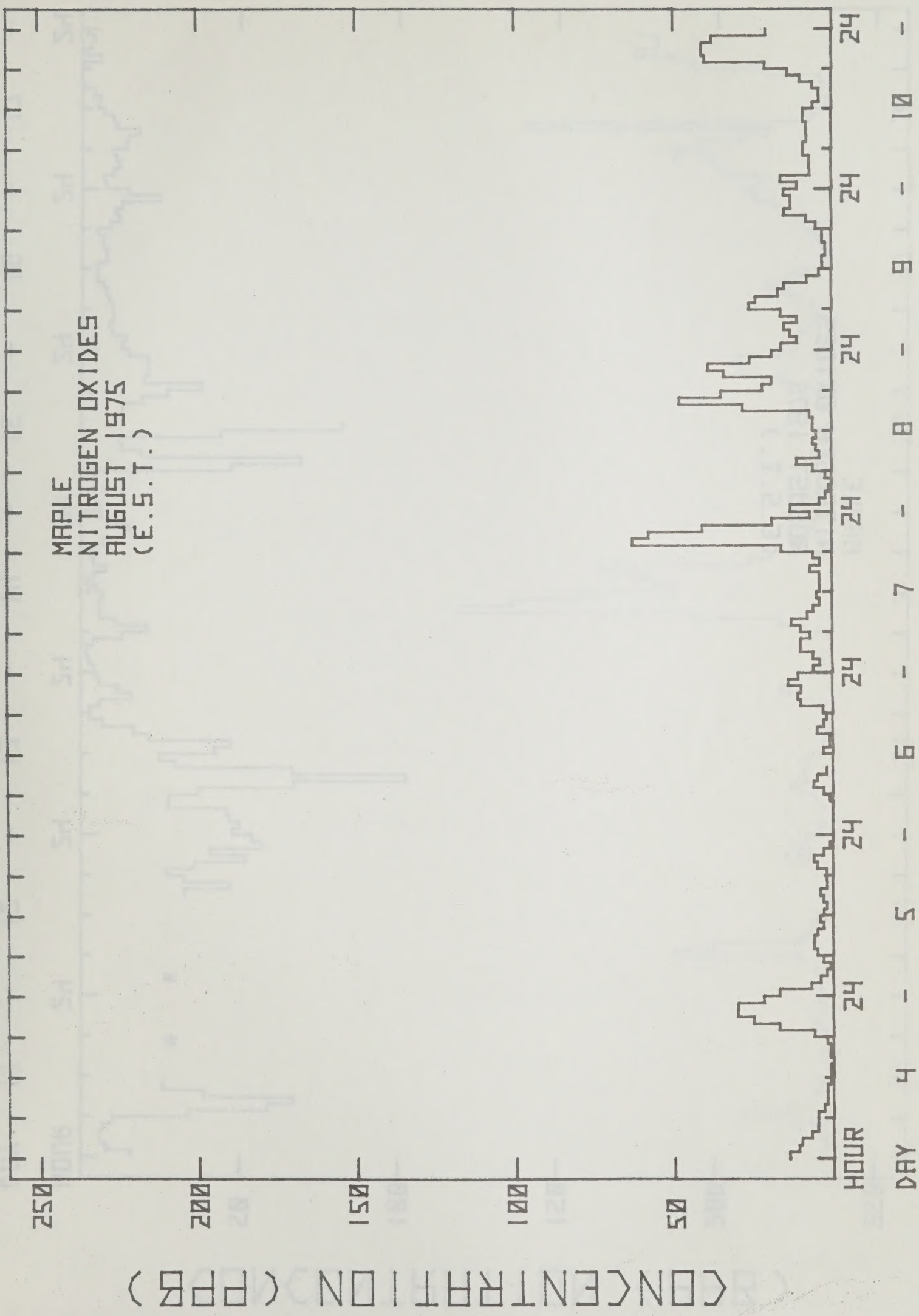
CONCENTRATION (PPB)





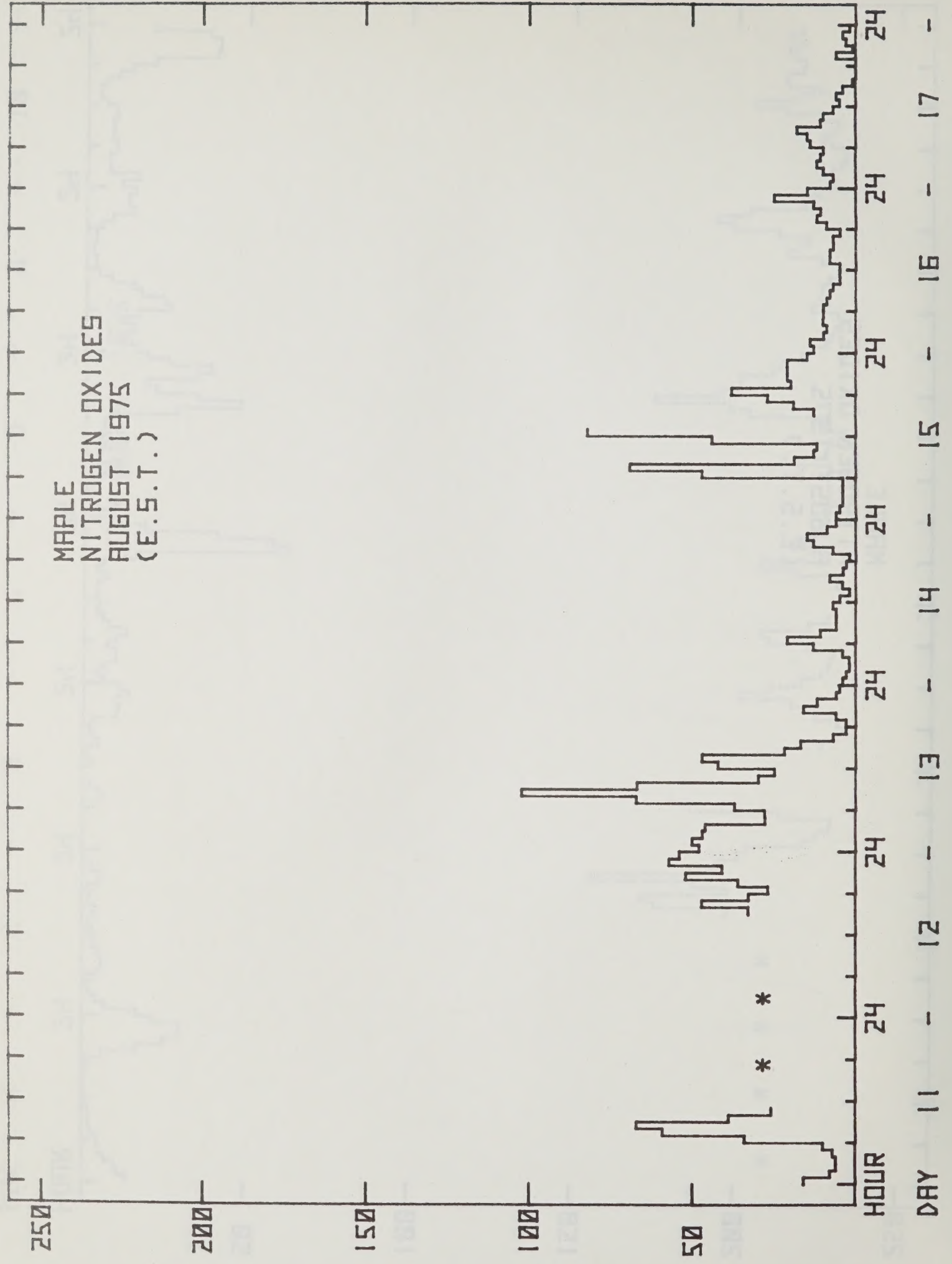
MAPLE
NITROGEN OXIDES
JULY-AUGUST 1975
(E.S.T.)

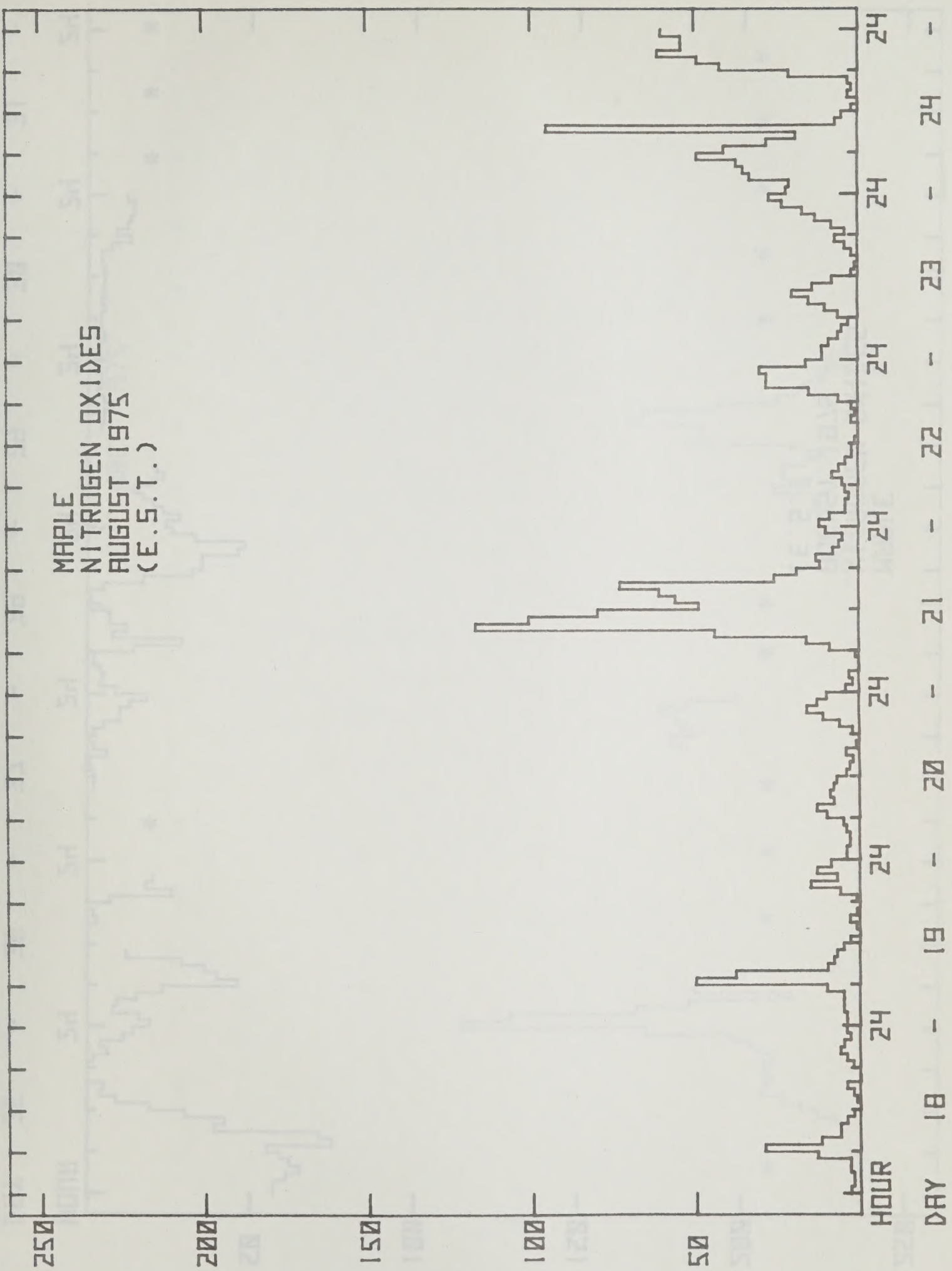


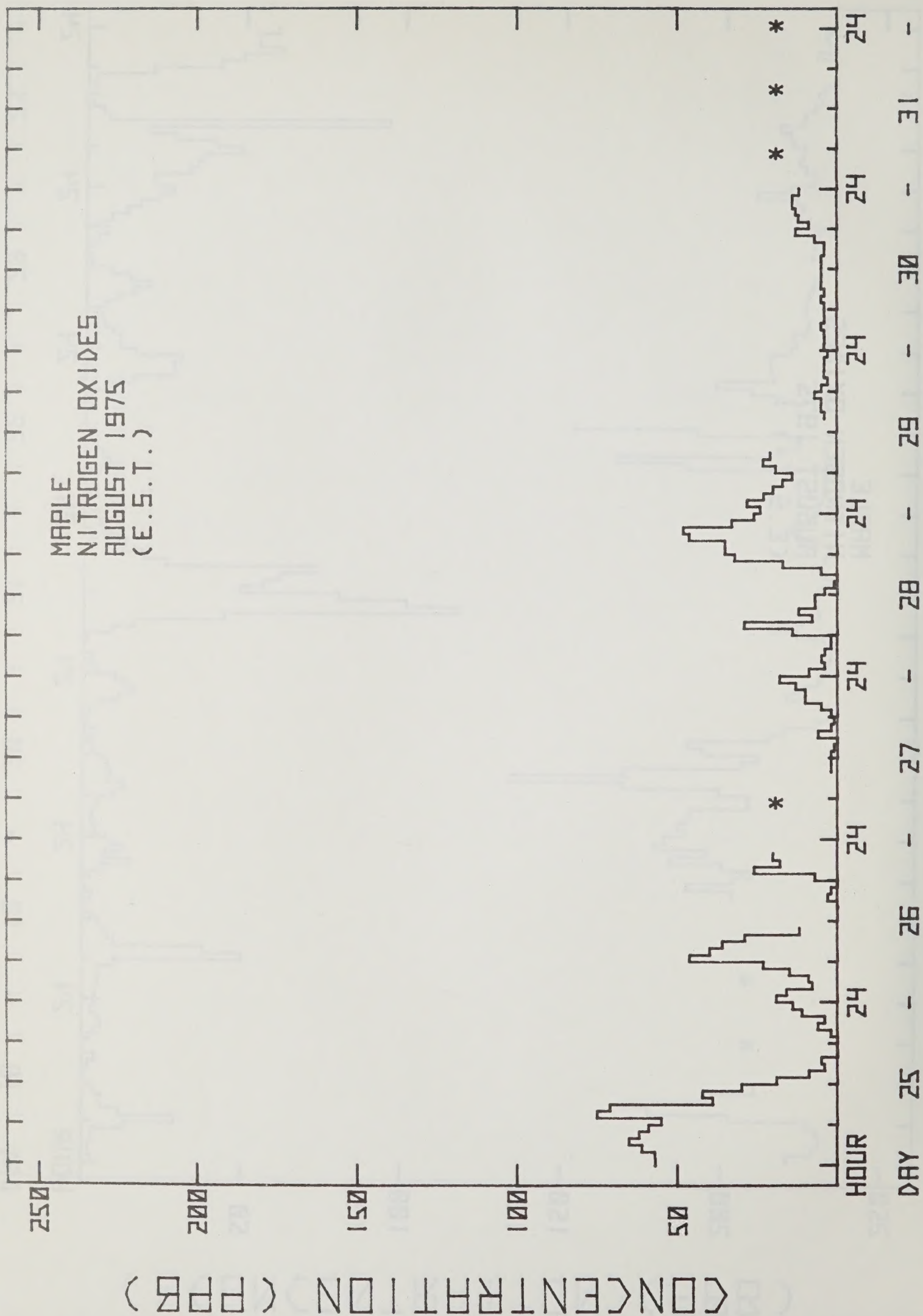


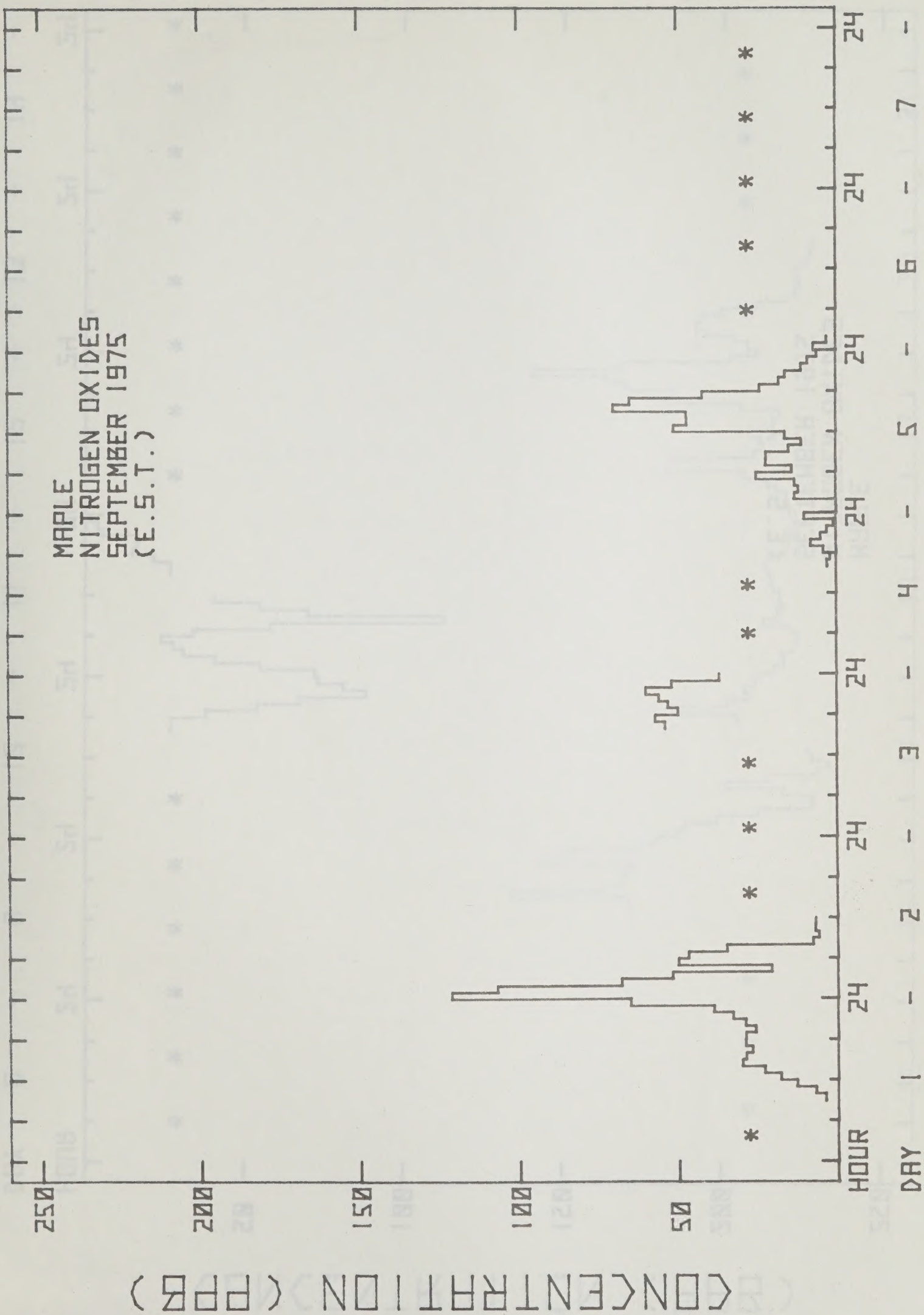
MAPLE
NITROGEN OXIDES
AUGUST 1975
(E.S.T.)

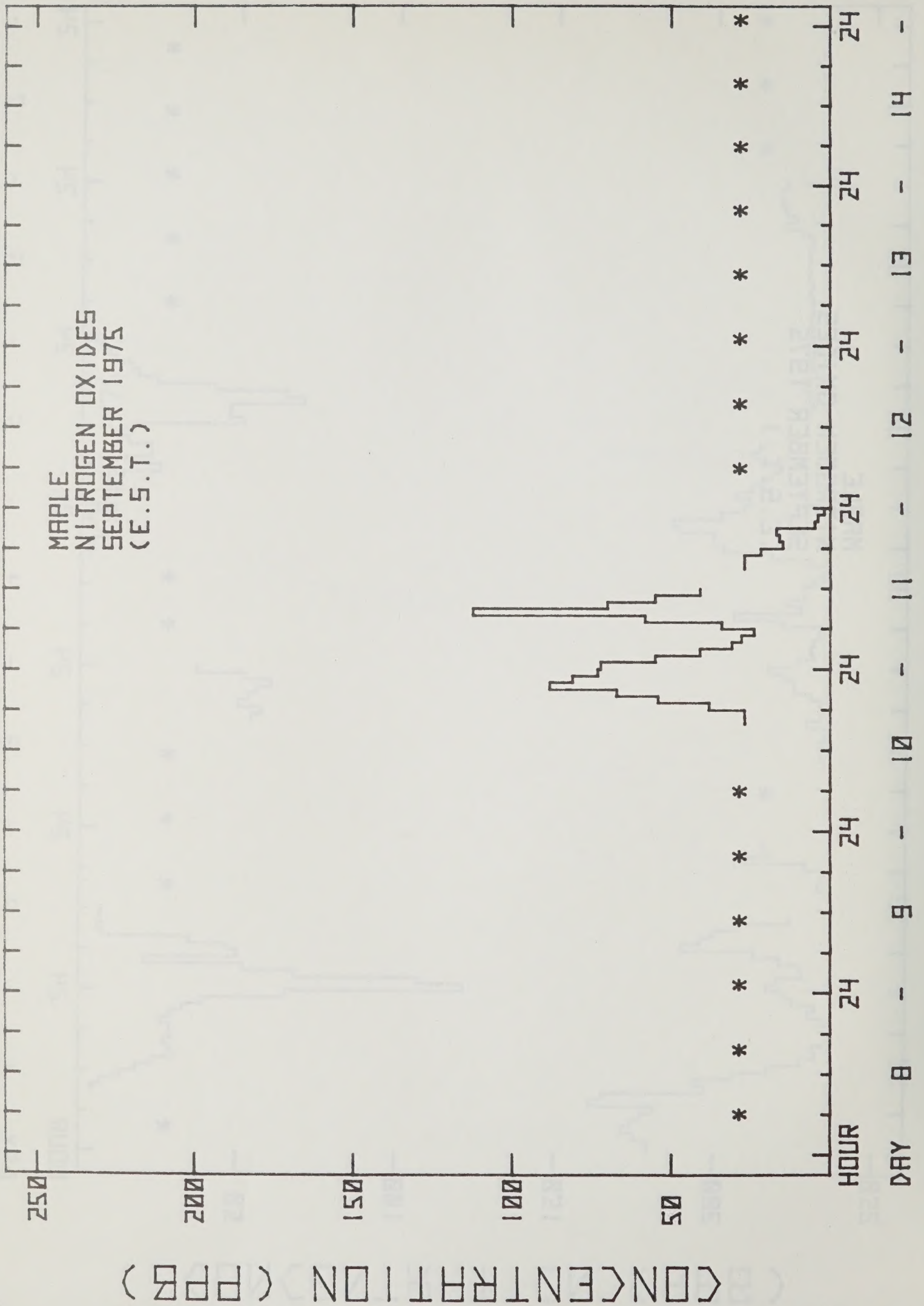
CONCENTRATION (PPB)

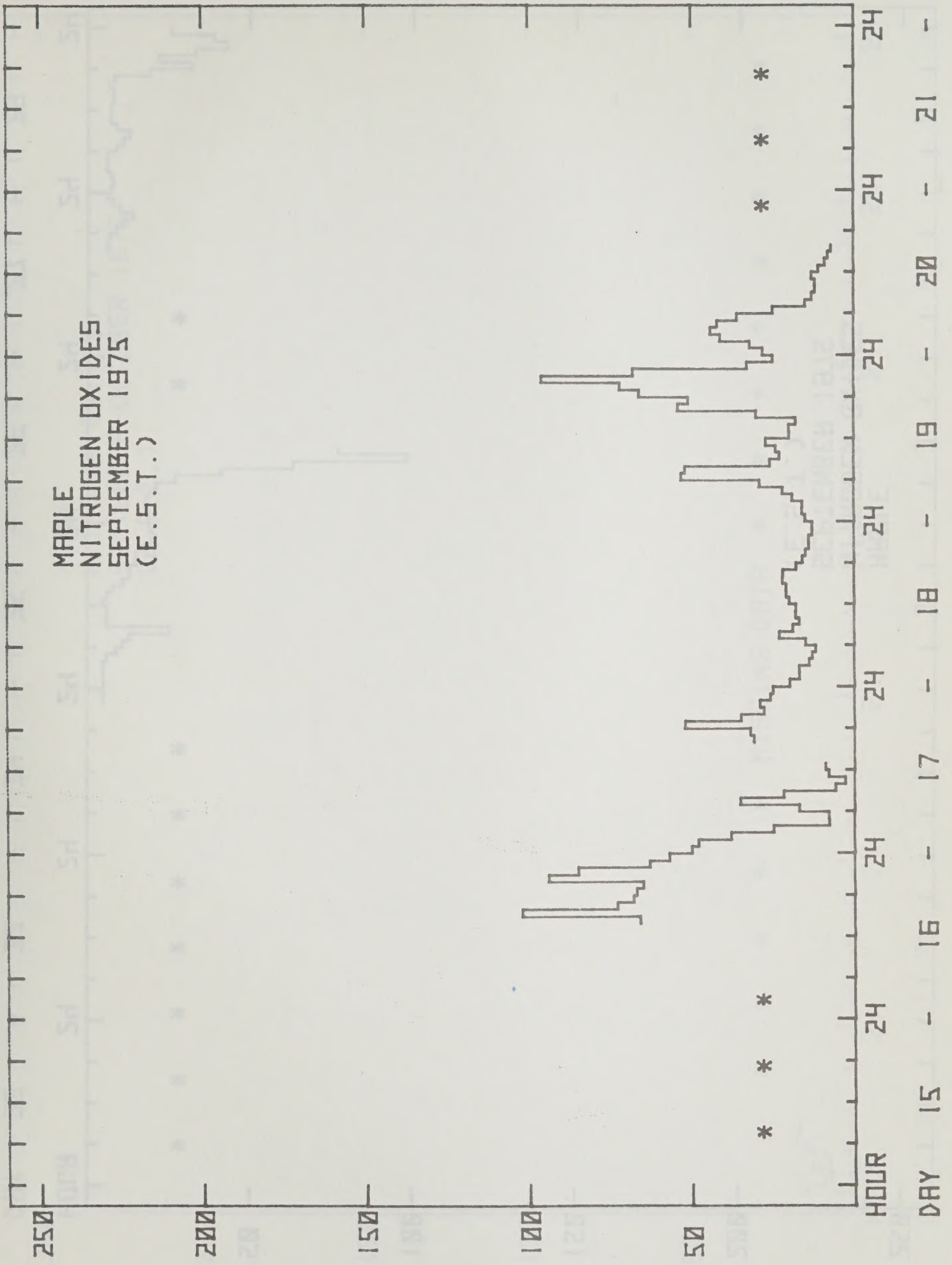




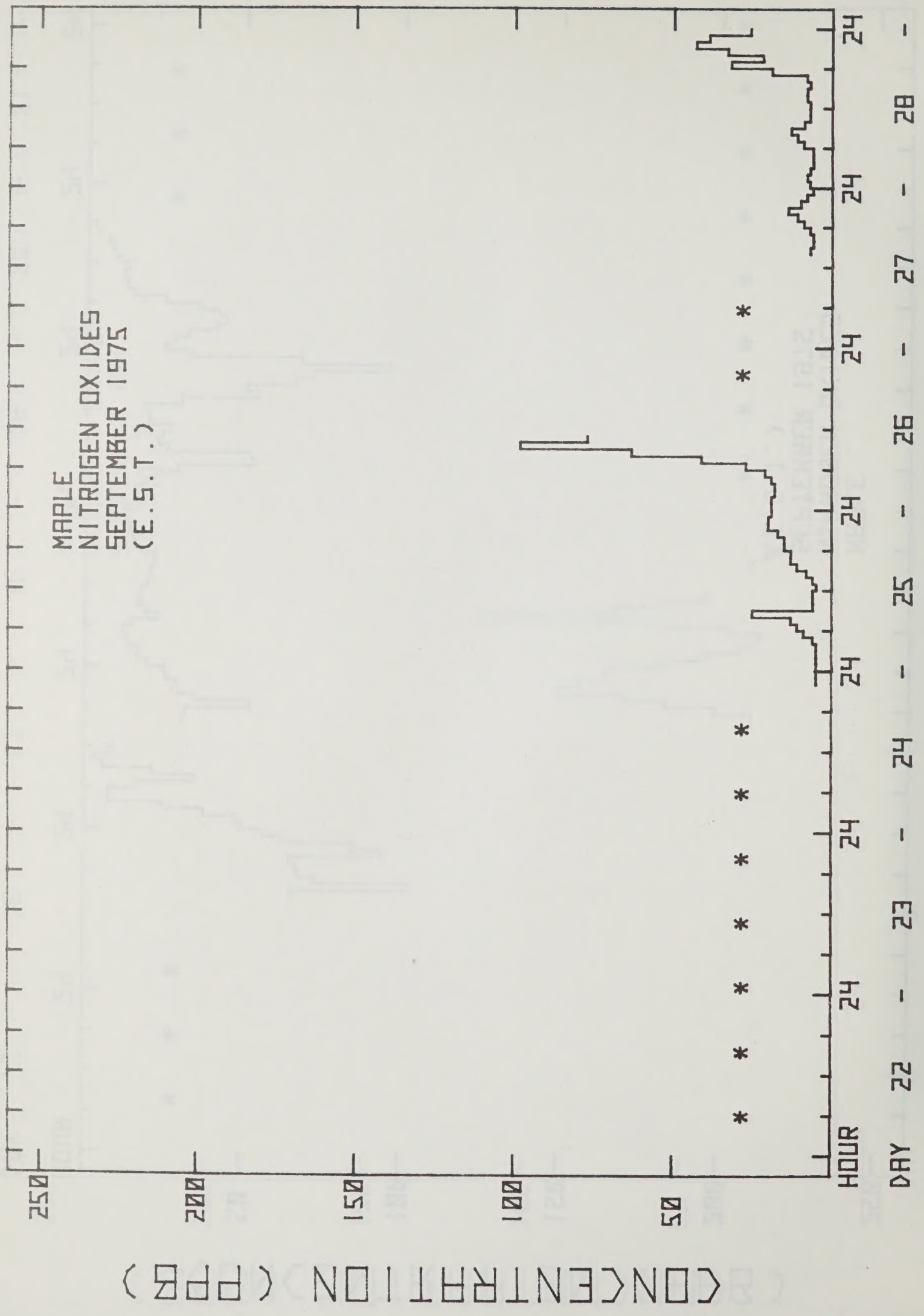




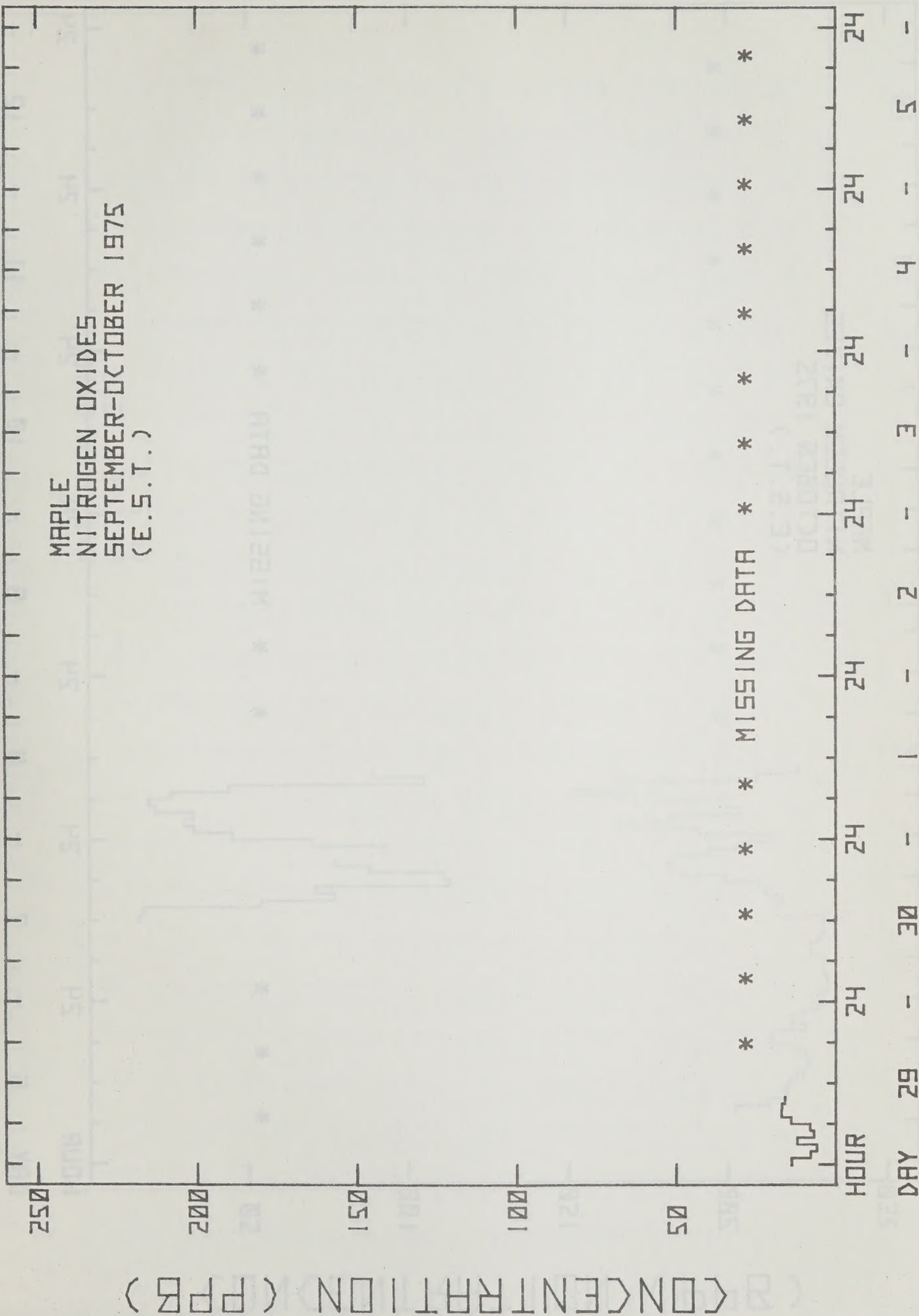


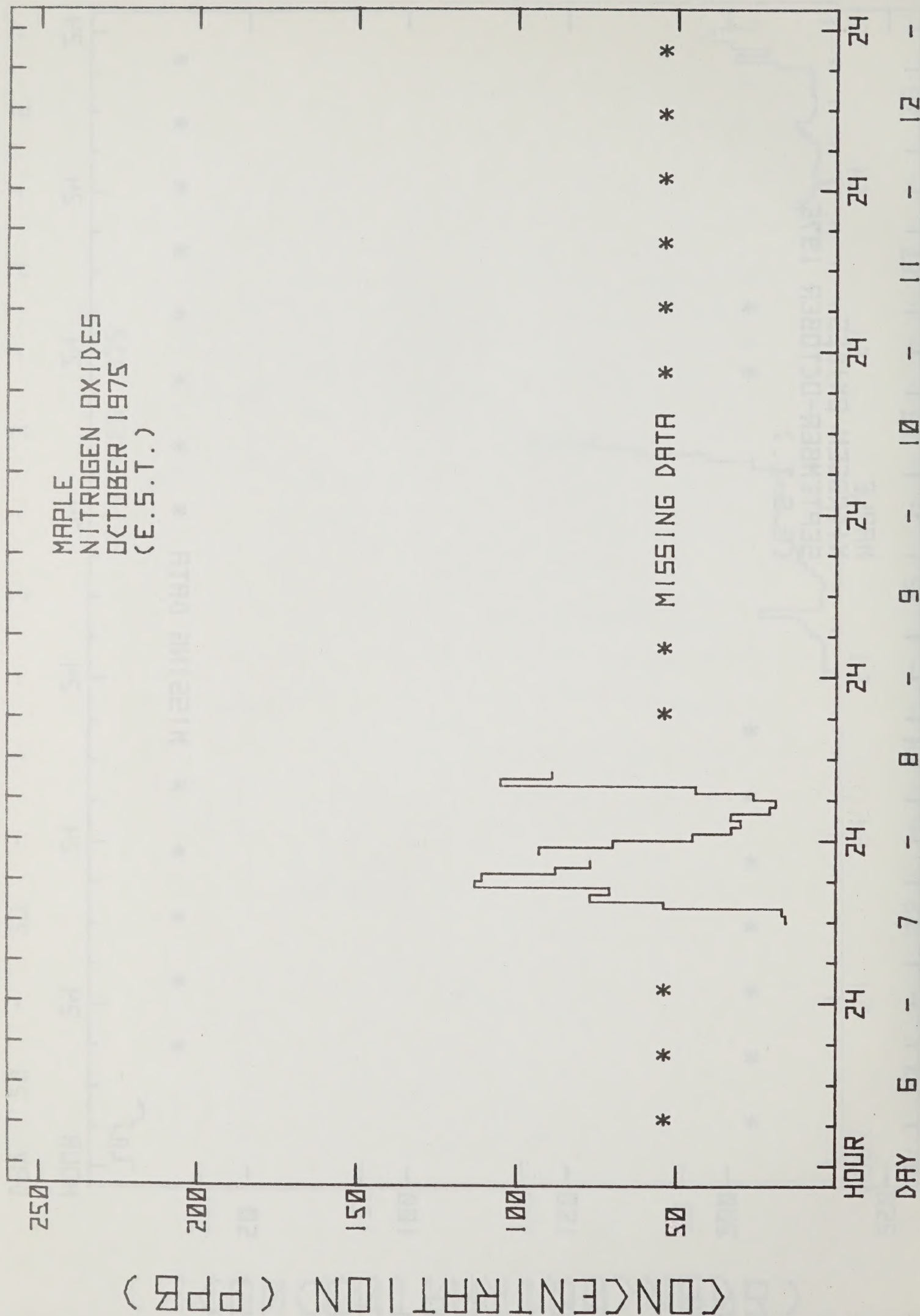


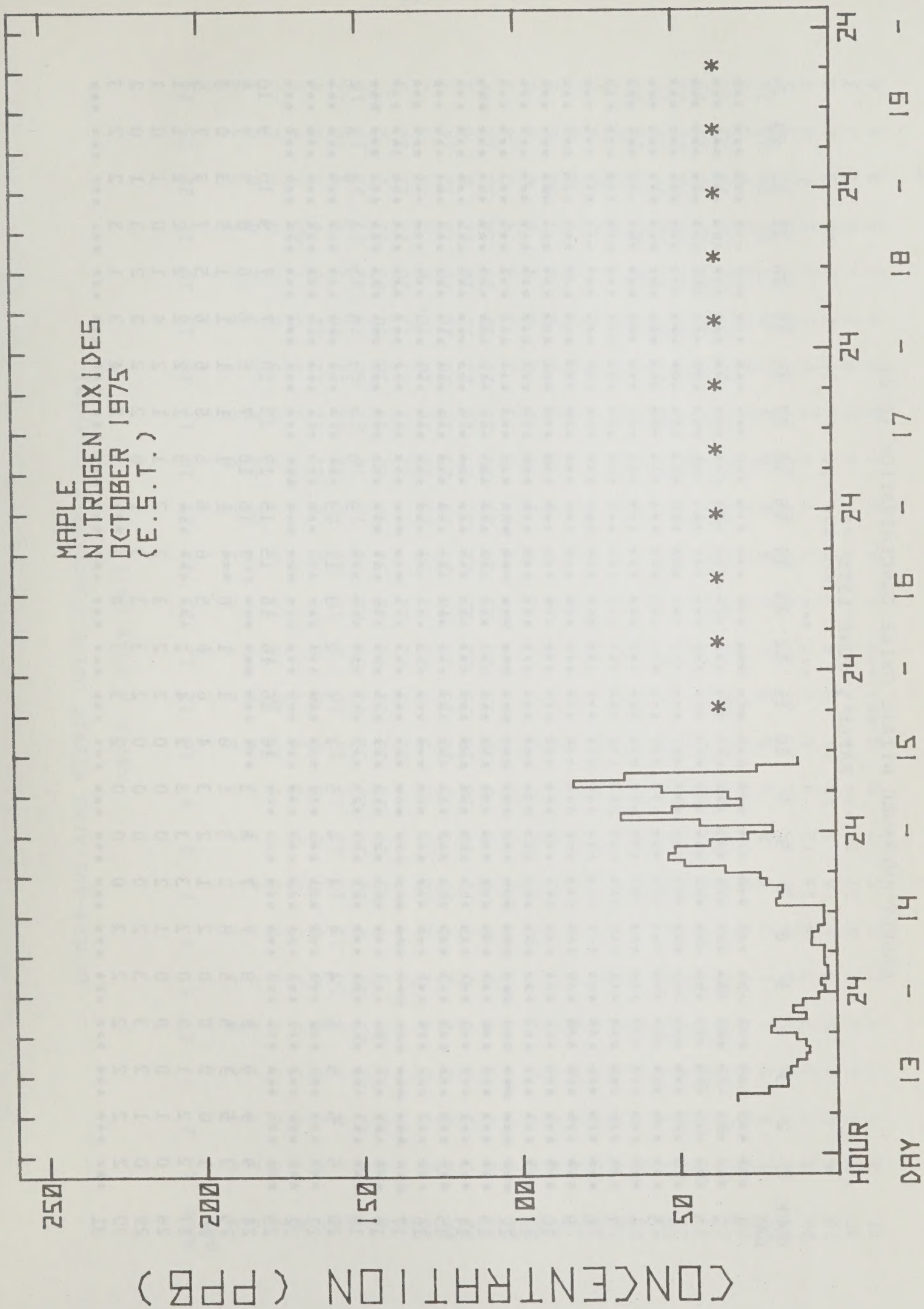
CONCENTRATION (PPB)



MAPLE
NITROGEN OXIDES
SEPTEMBER-OCTOBER 1975
(E.S.T.)







HOURLY-AVERAGED NITRIC OXIDE CONCENTRATION (PPB)

MAPLE, JULY 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	1	2	0	1	1	1	1	1	2	2	4	4	5	5	6	5	4	4	3	2	2	2	3
2	1	1	1	1	1	1	2	3	4	6	8	***	***	***	10	12	8	7	5	1	0	0	0	1
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4	3	4	3	3	3	5	5	5	5	4	4	3	***	***	***	***	5	5	5	7	25	4	4	6
5	6	4	6	6	6	6	8	8	8	8	8	8	8	8	8	12	12	12	11	8	6	5	5	4
6	4	6	7	8	10	11	15	28	41	17	10	9	11	11	12	12	12	10	9	9	8	9	10	11
7	12	12	12	11	10	9	12	18	22	31	42	59	68	74	76	76	67	50	39	32	27	22	19	16
8	14	12	11	10	9	9	13	16	20	26	34	42	48	54	56	60	59	50	50	41	33	2	2	***
9	***	***	***	***	***	***	***	***	***	11	8	12	14	***	***	22	21	23	23	20	17	13	10	9
10	7	5	5	4	2	2	2	5	5	5	9	13	12	16	15	13	16	10	10	8	7	6	5	2
11	2	2	2	2	2	4	17	8	10	12	13	15	16	17	19	25	19	20	16	20	19	12	11	7
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13	4	3	5	6	6	6	6	8	8	10	15	20	25	29	29	29	28	26	22	19	14	12	11	***
14	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	5	3	3	3	4	4	3	3	3
15	2	3	2	2	3	10	20	20	7	5	3	3	4	4	4	5	4	4	4	4	4	6	5	6
16	4	5	4	3	3	4	22	8	7	8	4	5	5	4	4	5	5	5	4	4	4	10	6	5
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19	4	4	4	4	5	7	8	8	8	8	11	11	8	7	5	6	6	6	6	7	6	7	7	7
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21	7	6	14	14	13	13	12	13	19	19	20	19	18	16	17	18	16	17	17	17	17	15	15	14
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30	2	1	1	1	1	6	27	34	***	***	***	***	***	***	***	8	3	2	1	1	0	1	2	3
31	4	3	3	3	3	3	5	7	5	5	***	***	5	6	7	7	6	6	4	3	5	3	4	4

HOURLY-AVERAGED NITRIC OXIDE CONCENTRATION (PPB)

MAPLE , OCTOBER 1975

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	5	7	3	6	2	1	11	32	70	47	22	2	3	3	9	23	21	53	56	41	34	42	53	31
2	15	10	3	6	2	1	11	32	70	47	22	2	3	3	9	23	21	53	56	41	34	42	53	31
3	15	10	3	6	2	1	11	32	70	47	22	2	3	3	9	23	21	53	56	41	34	42	53	31
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HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (PPB)

MAPLE, JULY 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (PPB)

MAPLE, AUGUST 1975

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY																								
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9	16	11	13	15	11	14	22	20	14	12	6	3	2	2	2	1	2	2	5	7	14	12	12	13
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11	14	6	4	5	5	9	29	43	43	30	19	***	***	***	***	***	***	***	***	***	***	***	***	***
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MAPLE, OCTOBER 1975

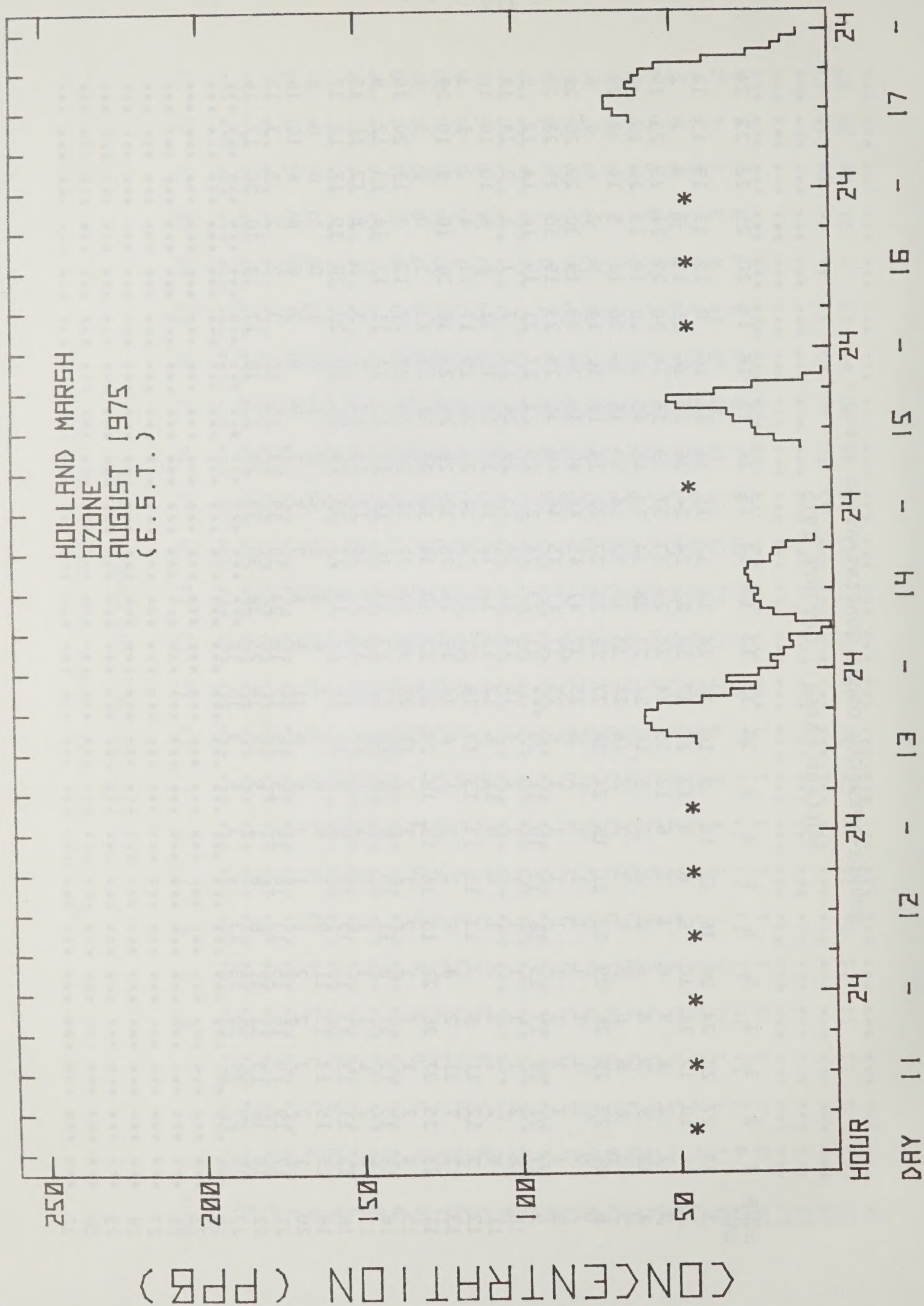
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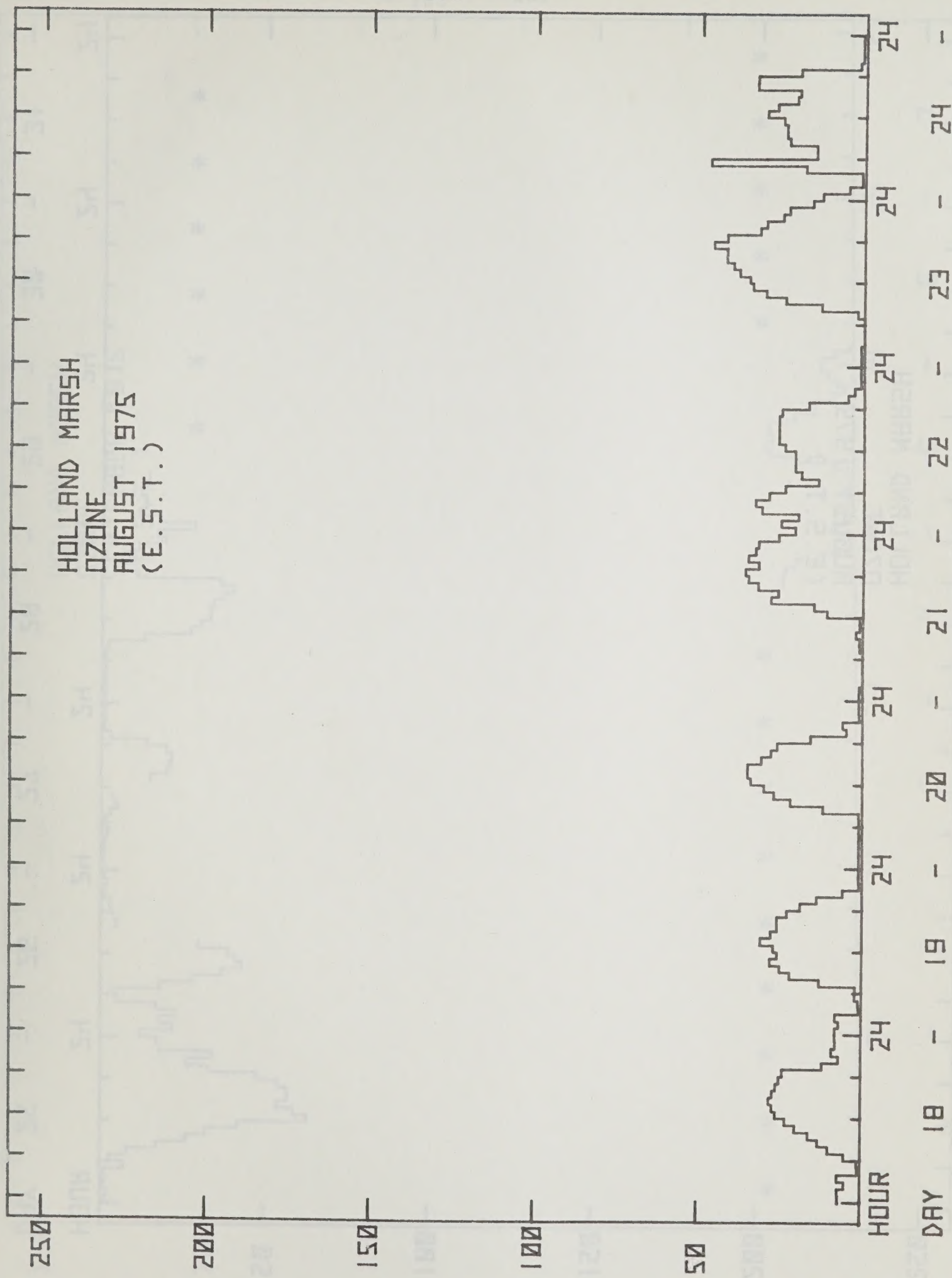
APPENDIX C.

AIR QUALITY DATA AT HOLLAND MARSH

AUGUST - OCTOBER 1975

- (i) Hourly-averaged Ozone Concentrations.....Page 177
- (ii) Hourly-averaged Nitrogen Oxides Concentrations.....Page 191
- (iii) Hourly-averaged Nitric Oxide Concentrations.....Page 201
- (iv) Hourly-averaged Nitrogen Dioxide Concentrations....Page 203

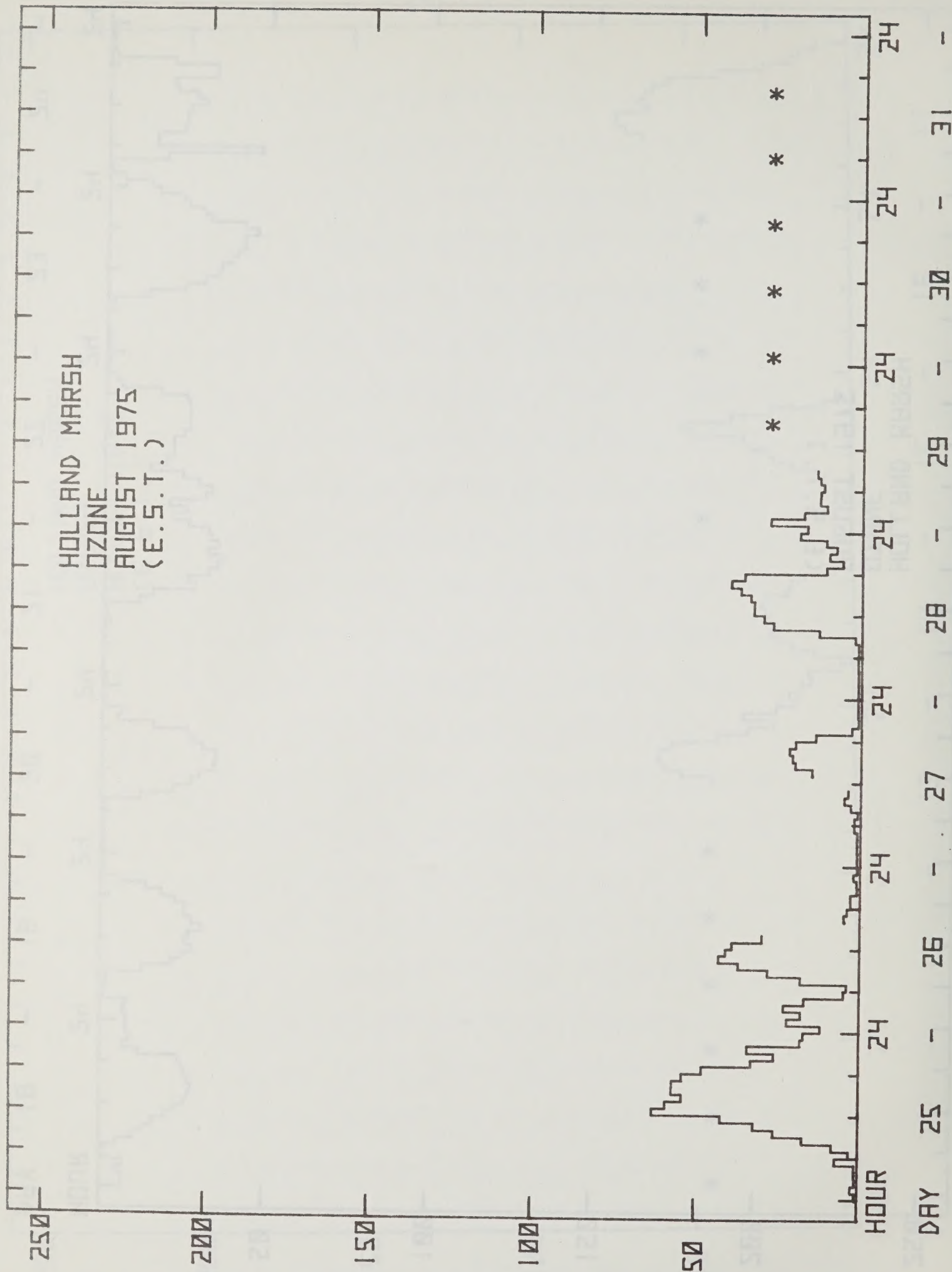




CONCENTRATION (PPB)

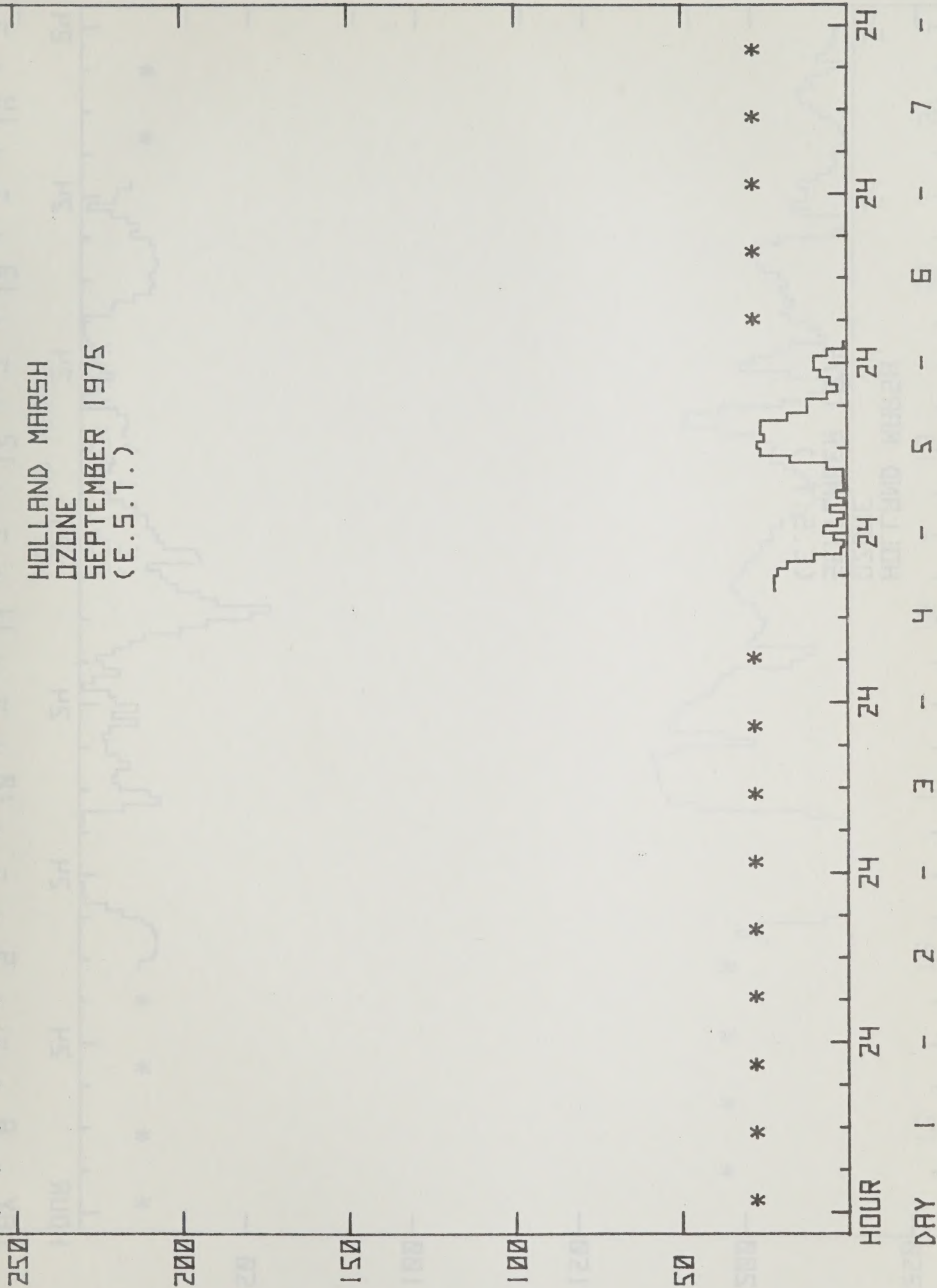
CONCENTRATION (PPB)

HOLLAND MARSH
OZONE
AUGUST 1975
(E.S.T.)

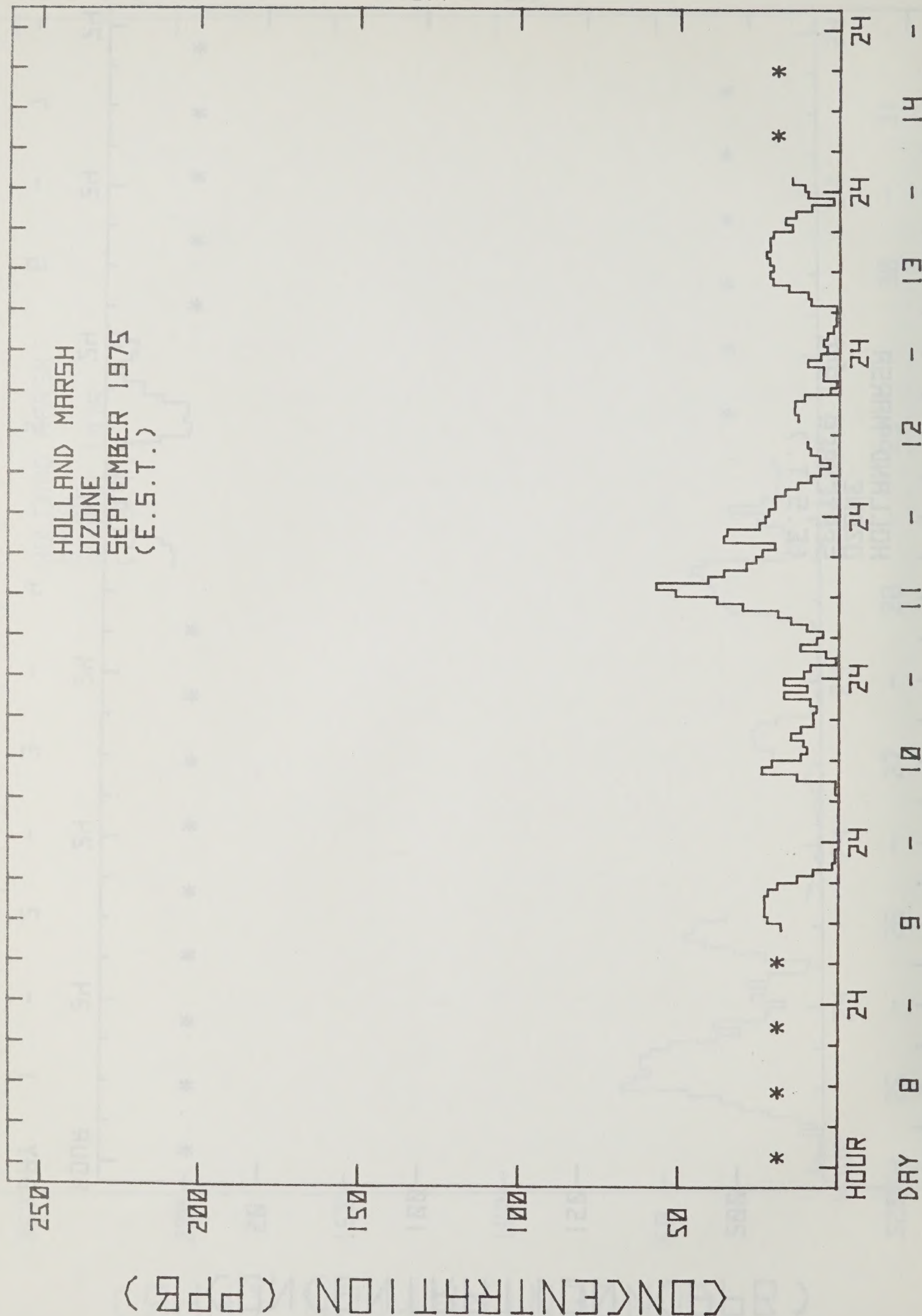


CONCENTRATION (PPB)

HOLLAND MARSH
OZONE
SEPTEMBER 1975
(E.S.T.)

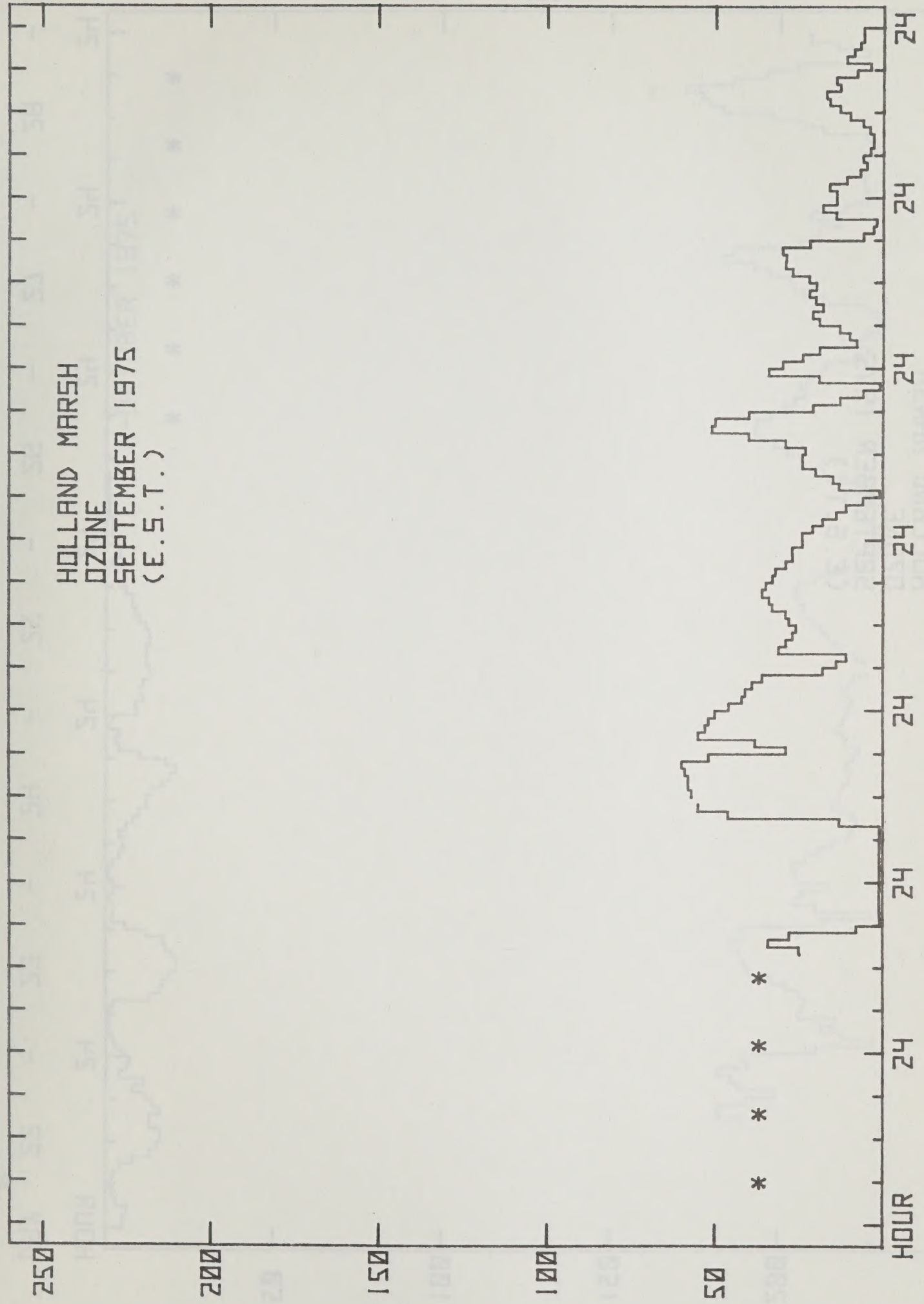


HOLLAND MARSH
OZONE
SEPTEMBER 1975
(E.S.T.)

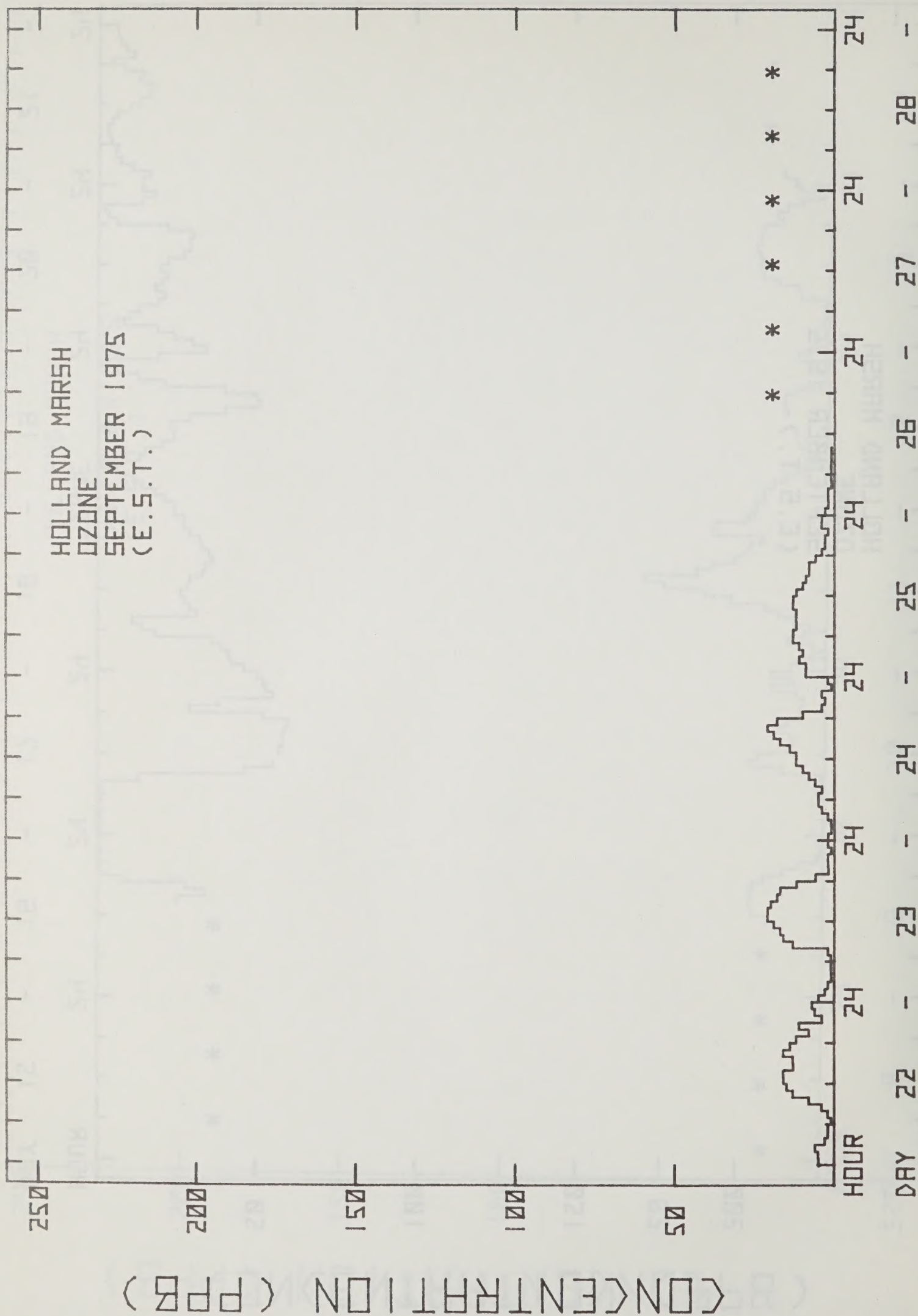


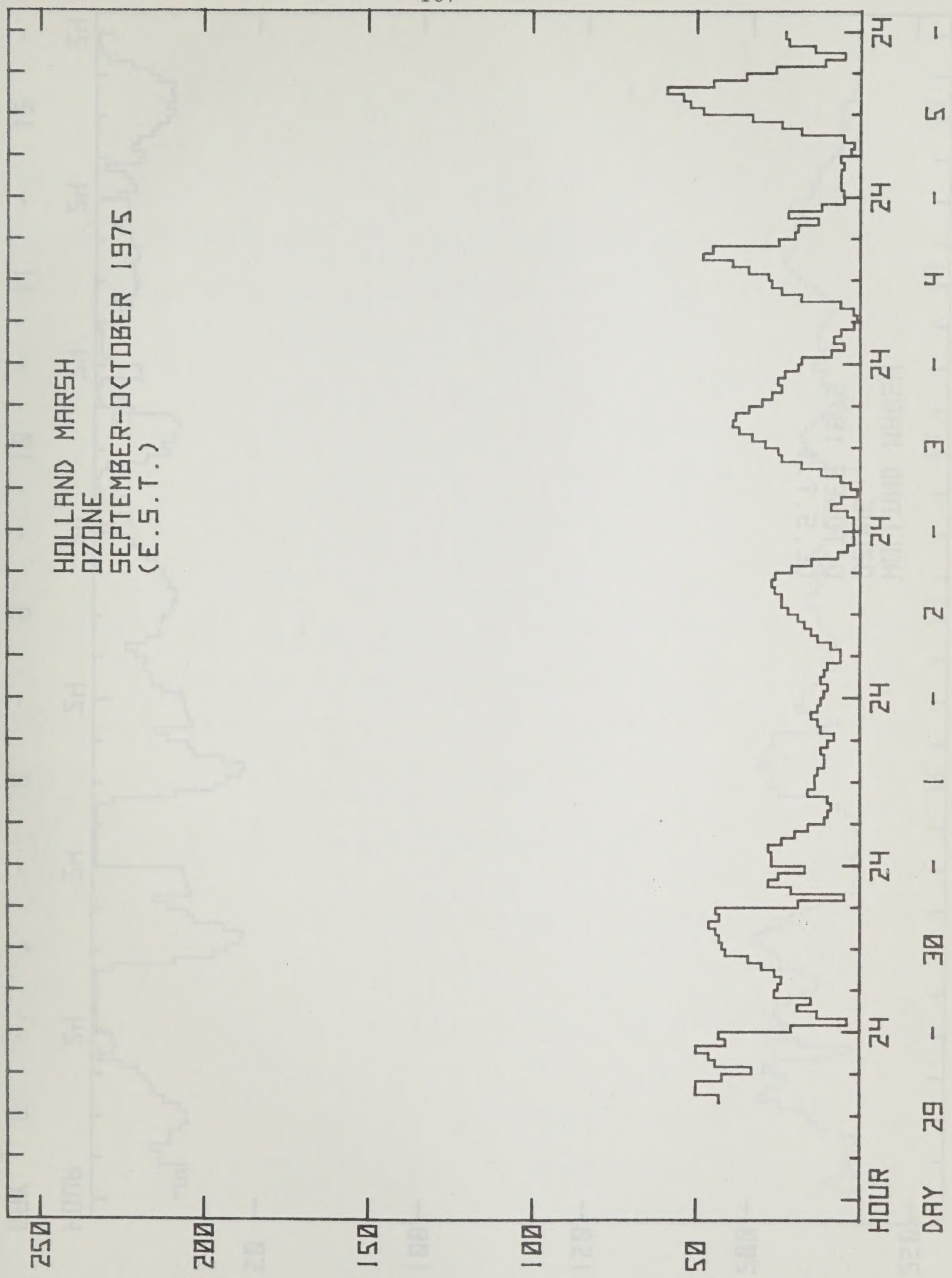
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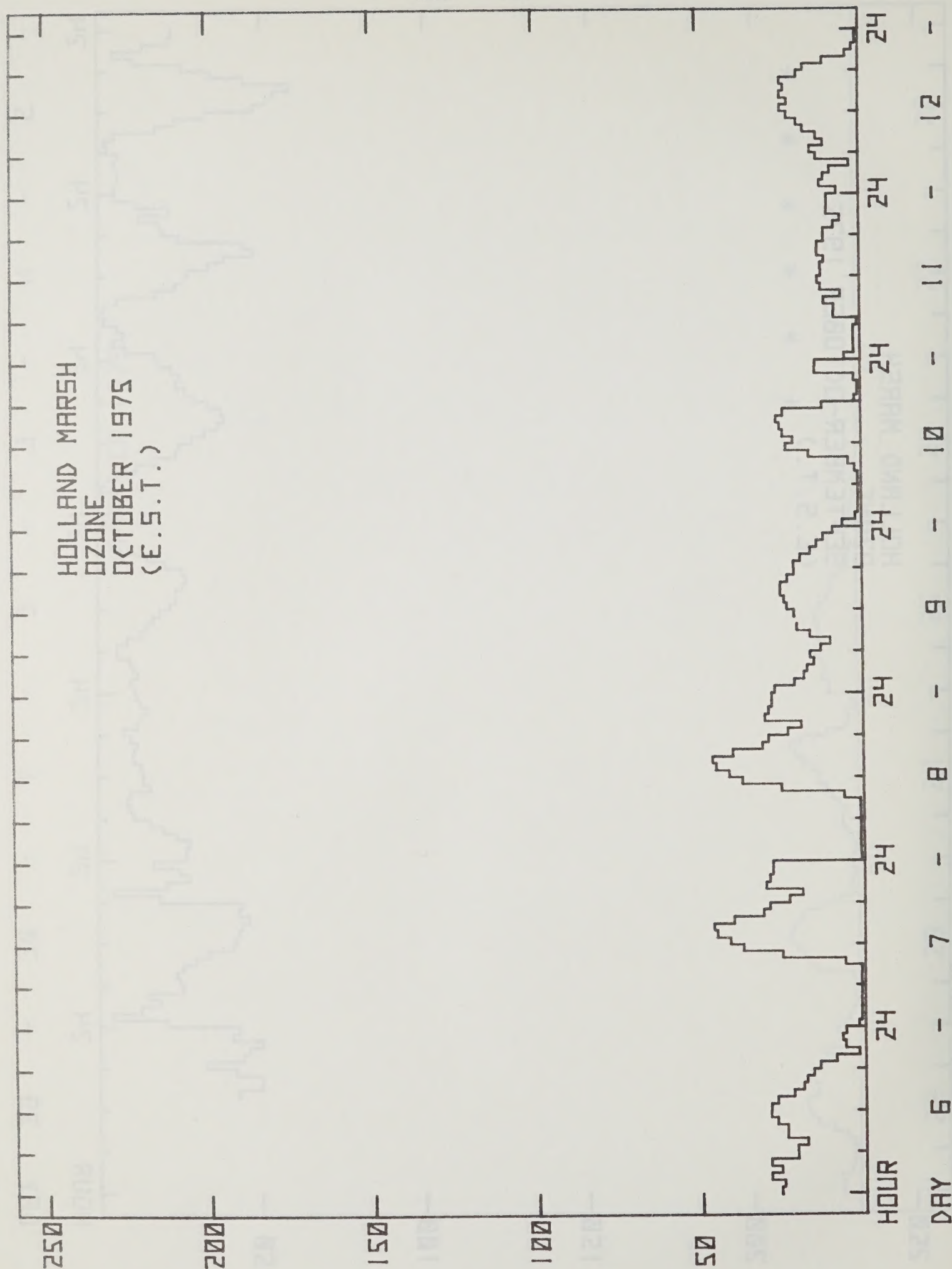
HOLLAND MARSH
OZONE
SEPTEMBER 1975
(E.S.T.)



DAY 15 - 16 - 17 - 18 - 19 - 20 - 21 -

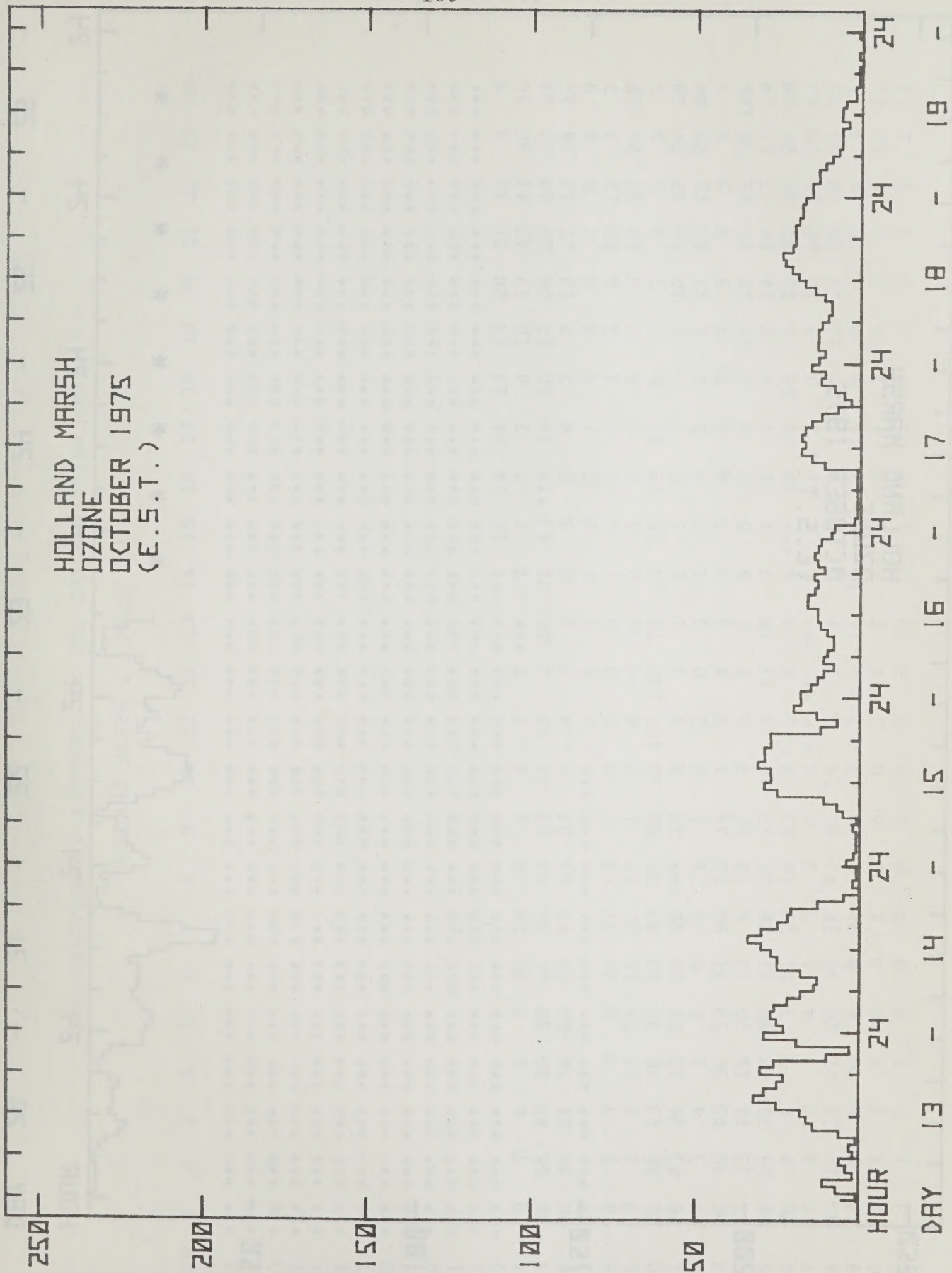






HOLLAND MARSH
OZONE
OCTOBER 1975
(E.S.T.)

CONCENTRATION (PPB)



CONCENTRATION (PPB)

HOLLAND MARSH
OZONE
OCTOBER 1975
(E.S.T.)

250

200

150

100

50

HOUR

DAY

20

-

21

-

22

-

23

-

24

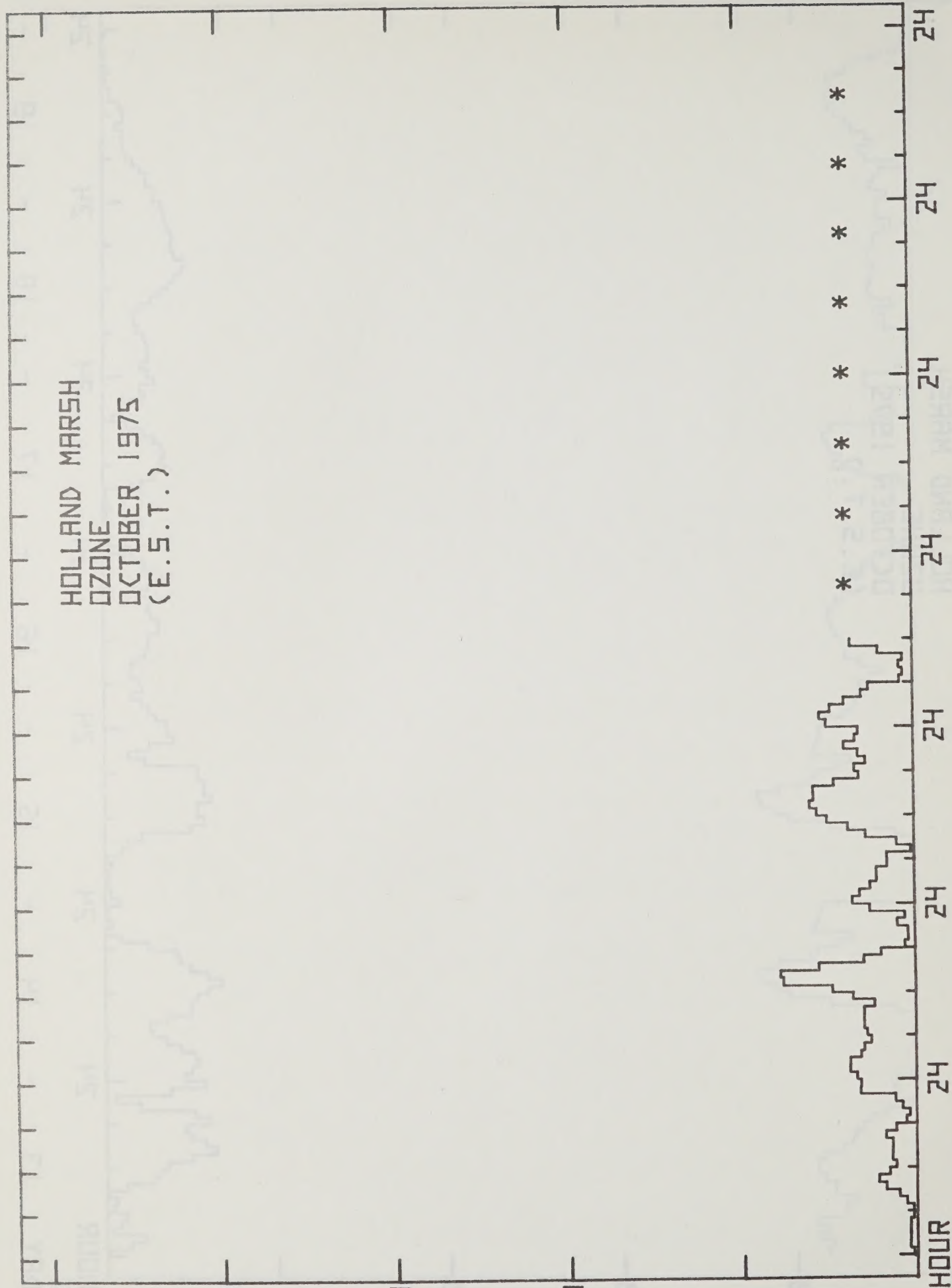
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25

-

26

-



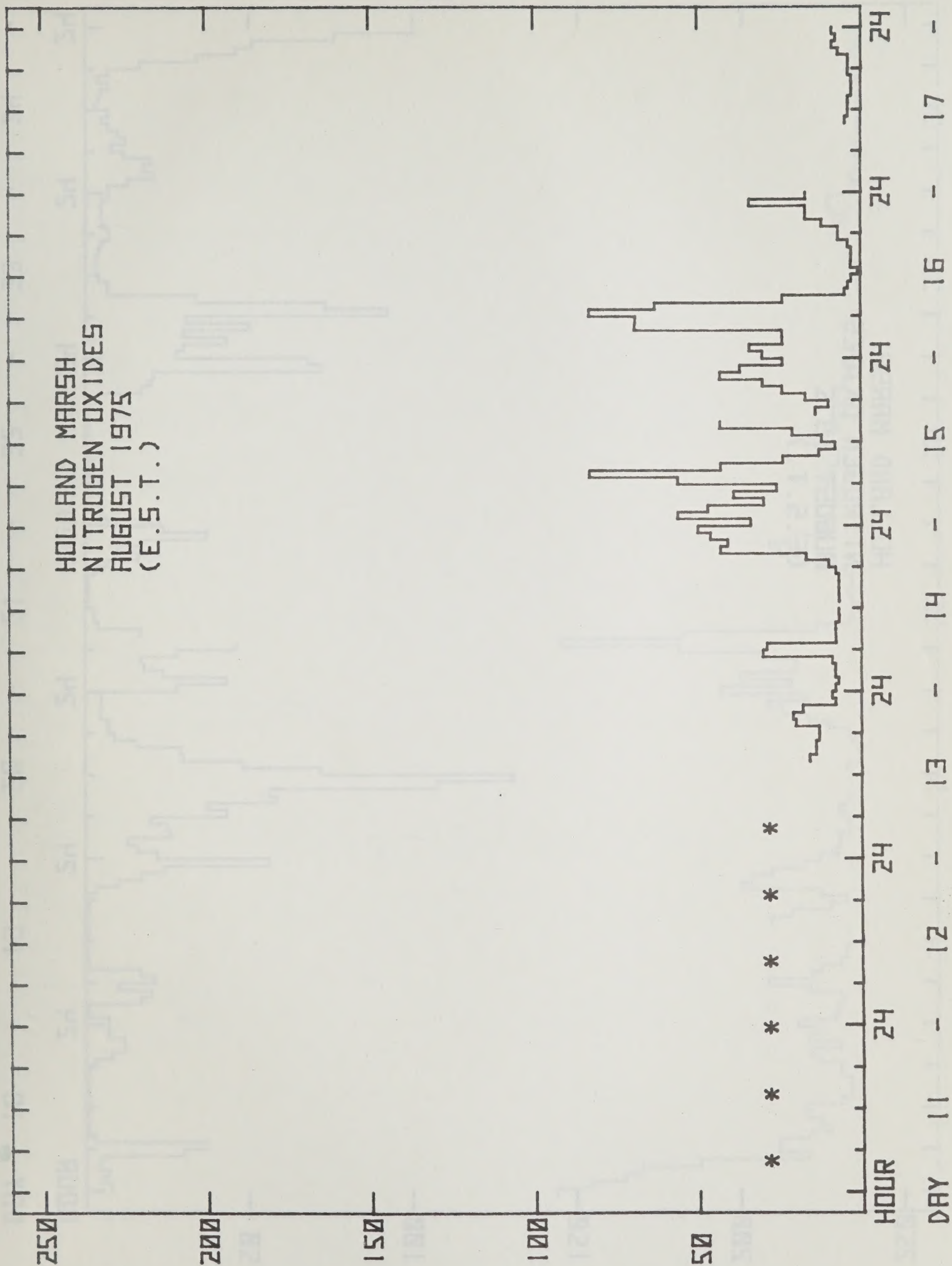
HOURLY-AVERAGED NITROGEN OXIDES CONCENTRATION (PPB)

HOLLAND MARSH , AUGUST 1975

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2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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CONCENTRATION (PPB)

HOLLAND MARSH
NITROGEN OXIDES
AUGUST 1975
(E.S.T.)



HOLLAND MARSH
NITROGEN OXIDES
AUGUST 1975
(E.S.T.)

CONCENTRATION (PPB)

250

200

150

100

50

HOUR

DAY

18

19

20

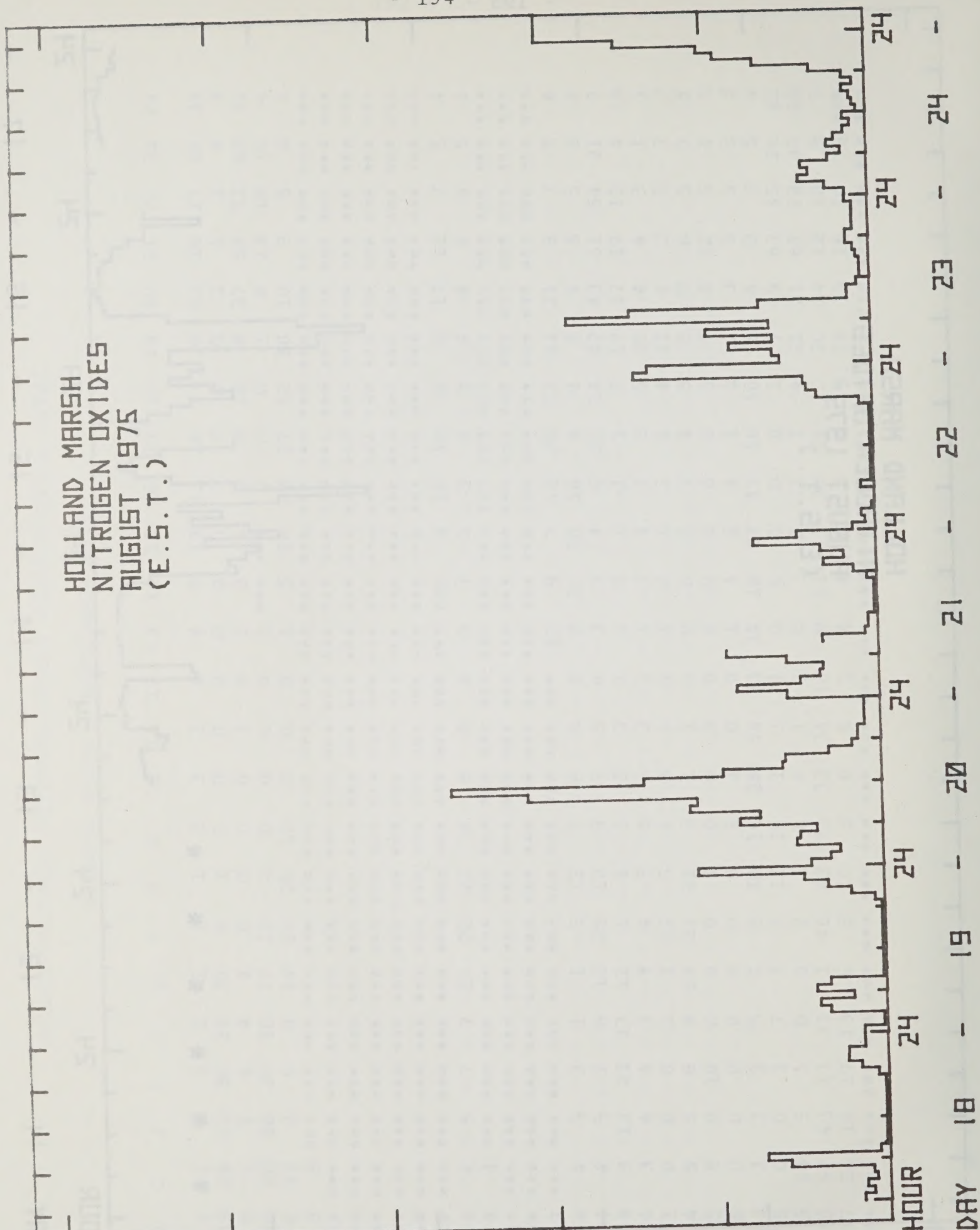
21

22

23

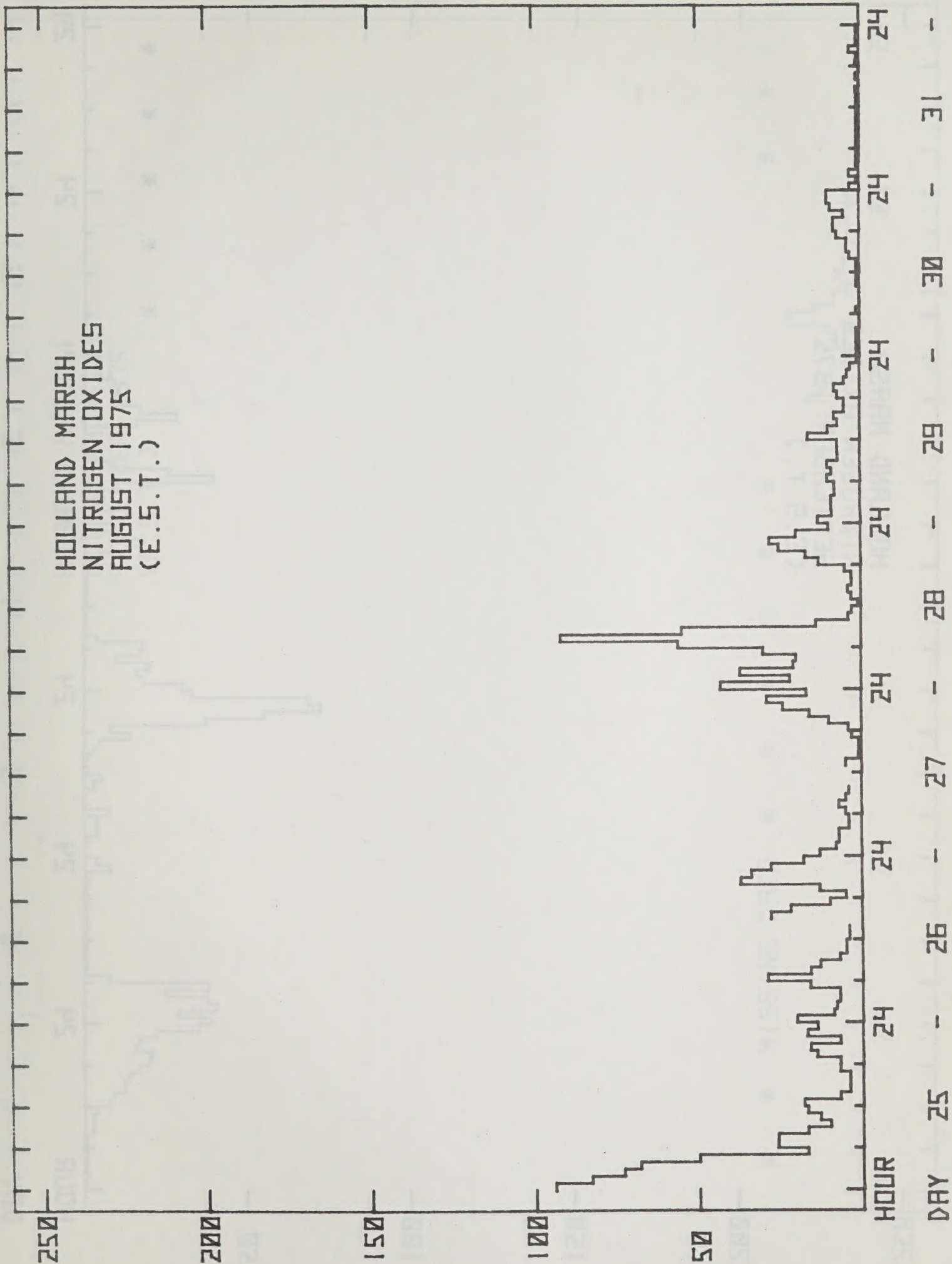
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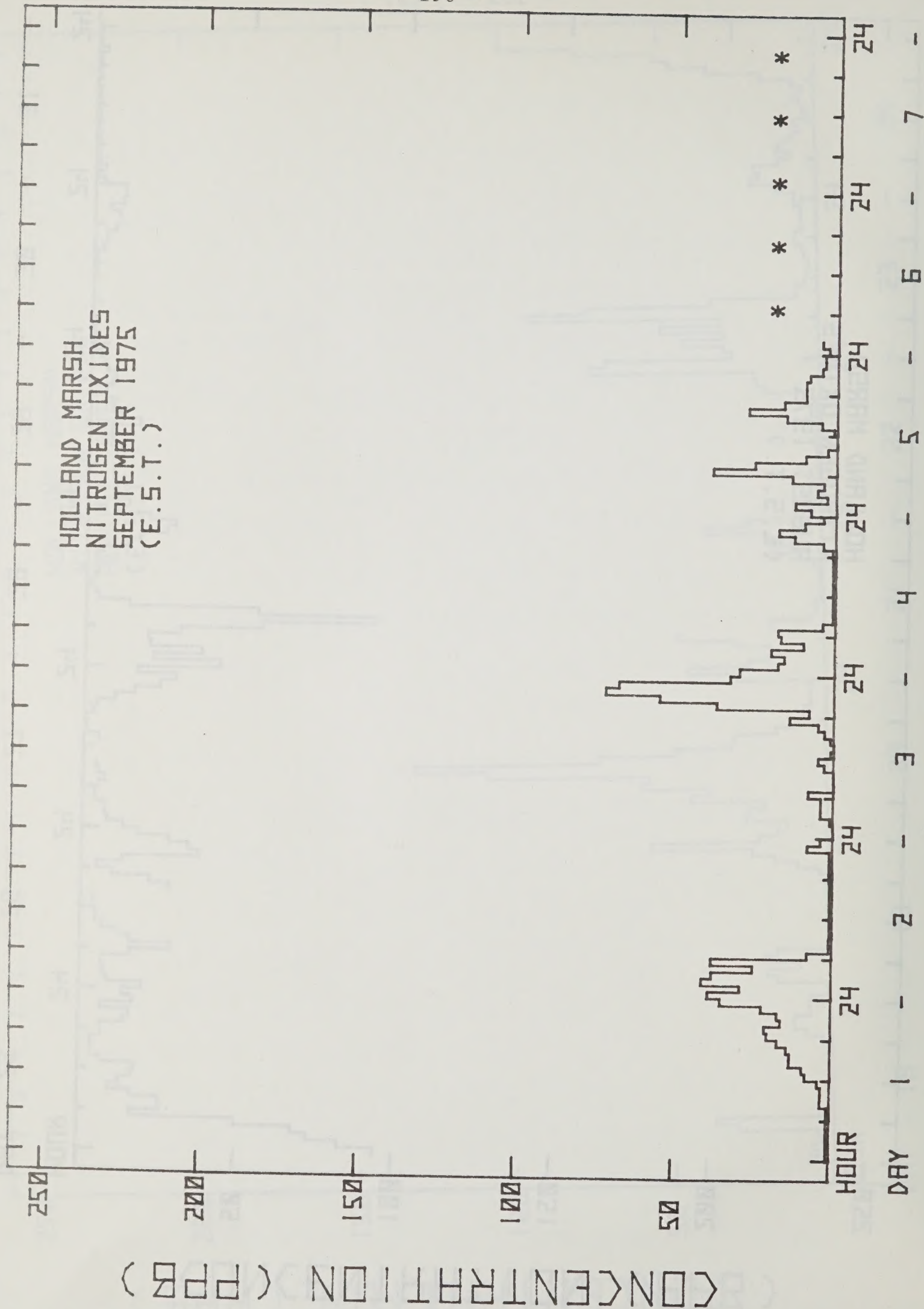


HOLLAND MARSH
NITROGEN OXIDES
AUGUST 1975
(E.S.T.)

CONCENTRATION (PPB)

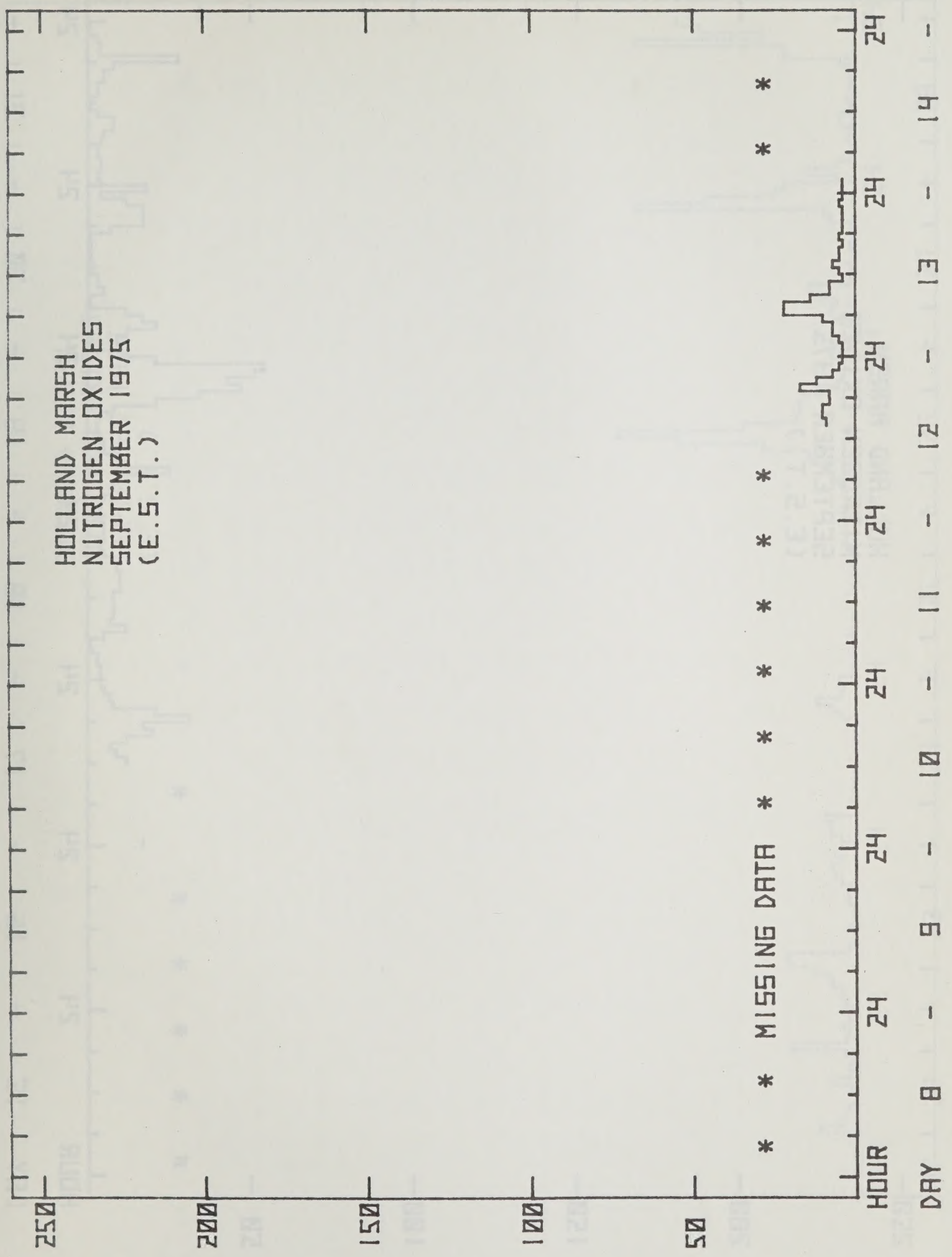


HOLLAND MARSH
NITROGEN OXIDES
SEPTEMBER 1975
(E.S.T.)

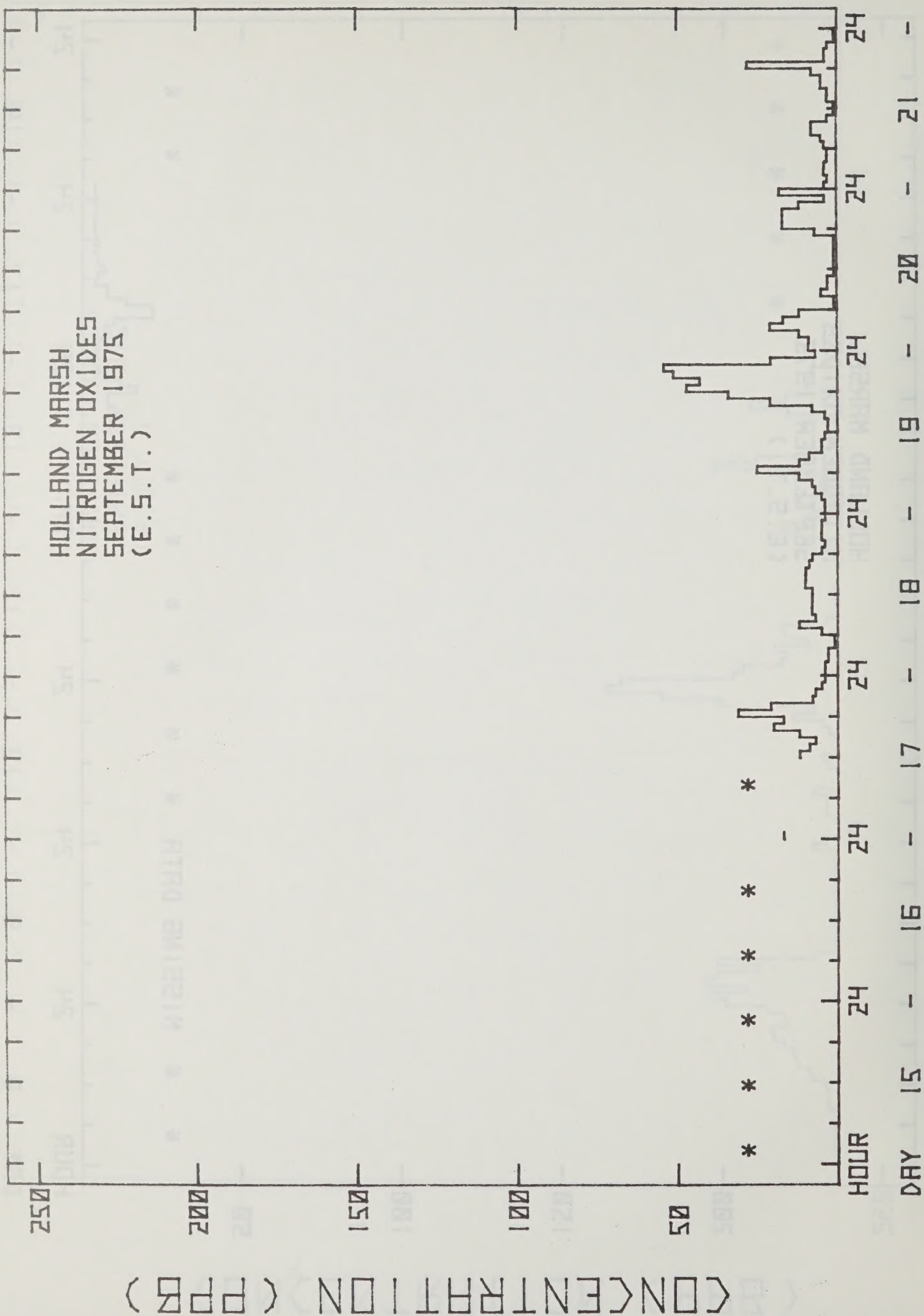


CONCENTRATION (PPB)

HOLLAND MARSH
NITROGEN OXIDES
SEPTEMBER 1975
(E.S.T.)

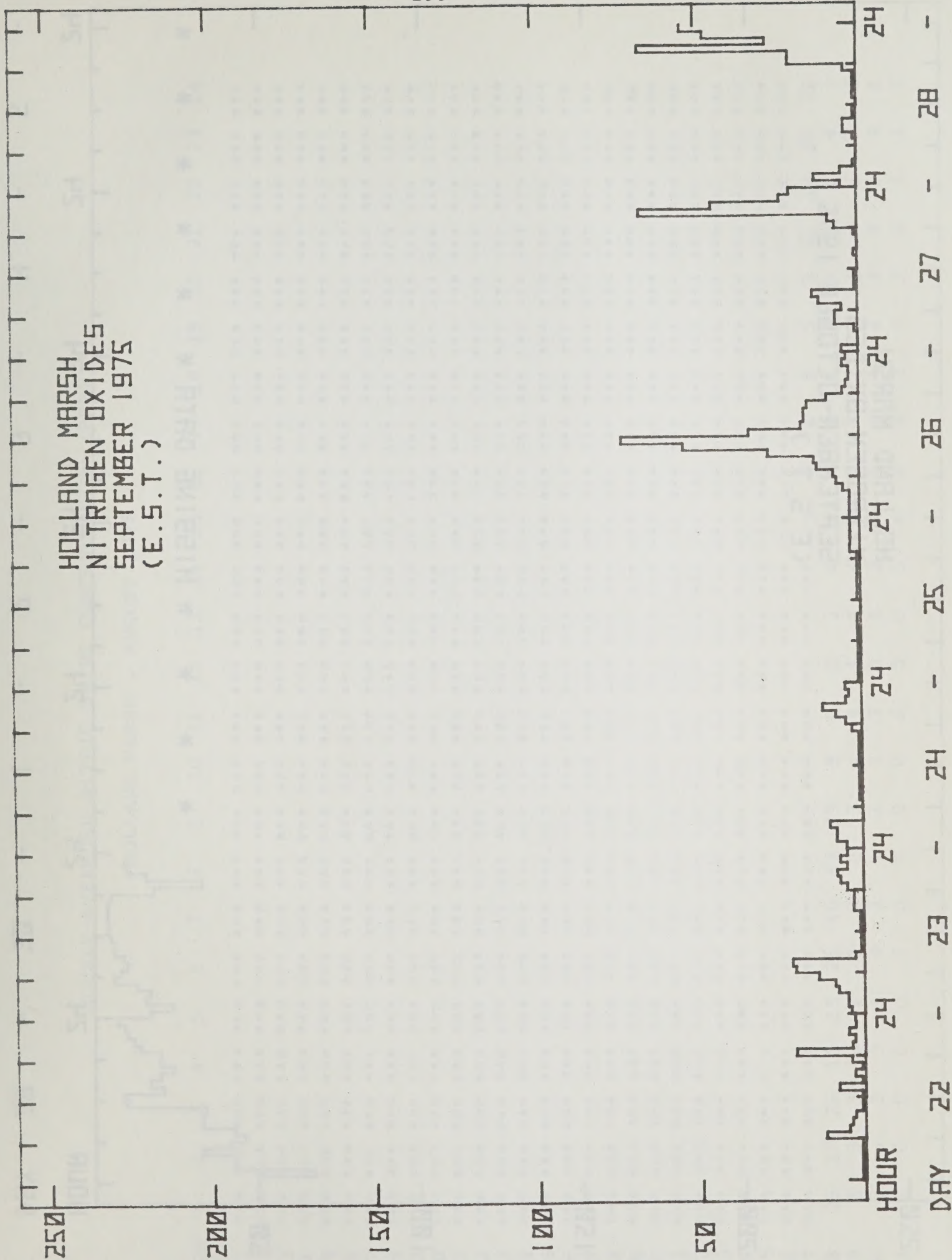


HOLLAND MARSH
NITROGEN OXIDES
SEPTEMBER 1975
(E.S.T.)



HOLLAND MARSH
NITROGEN OXIDES
SEPTEMBER 1975
(E.S.T.)

CONCENTRATION (PPB)



HOURLY-AVERAGED NITRIC OXIDE CONCENTRATION (PPB)

HOLLAND MARSH , AUGUST 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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28	35	15	26	15	15	26	46	69	35	5	0	3	3	4	4	3	4	4	5	5	11	18	22	11
29	3	3	3	3	1	0	0	0	3	4	4	4	4	4	4	3	3	3	5	5	4	4	4	3
30	3	3	3	3	3	3	3	1	1	3	3	3	3	3	4	4	4	4	3	3	3	3	4	4
31	1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	4	3	3	3	3	3	3	3

HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (P.P.B.)

HOLLAND MARSH , AUGUST 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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28	8	7	11	6	5	4	10	23	20	9	4	0	-2	-1	-4	-2	-3	-2	-1	5	5	6	7	6
29	10	6	6	6	7	8	10	9	7	3	3	3	12	6	3	5	2	2	4	12	21	24	16	7
30	-2	-2	-2	-2	-3	-3	-2	-1	-1	-3	-2	-2	-2	-2	-1	0	0	3	4	5	2	1	0	-2
31	2	1	3	1	0	0	0	0	0	0	0	0	0	-1	-3	-4	-3	-3	-2	-2	0	-2	-2	-2

HOURLY-AVERAGED NITROGEN DIOXIDE CONCENTRATION (PPB)

HOLLAND MARSH , SEPTEMBER 1975

HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	-2	-2	-2	-2	-2	-2	-2	-2	0	-1	-1	-1	4	4	6	6	7	10	13	16	15	14	19	28
2	27	22	25	15	1	26	-14	-3	-3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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5	8	9	3	6	4	7	7	8	3	2	0	0	1	2	15	25	-1	0	1	4	12	14	10	4
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13	4	4	2	2	0	-2	-2	-1	3	7	5	4	5	7	5	5	4	7	-3	-11	0	0	5	3
14	4	4	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
15	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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17	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
18	4	4	3	3	1	1	5	11	6	7	5	5	7	9	2	8	16	13	28	20	7	7	5	4
19	4	4	5	7	8	12	21	9	8	4	4	3	-8	0	1	10	9	8	5	4	5	5	5	4
20	9	9	11	21	17	12	1	1	5	2	2	-2	-4	-4	-4	5	17	27	39	40	50	47	20	6
21	4	3	4	4	3	3	4	4	4	4	-1	-3	-2	-1	-2	0	-4	2	10	14	14	12	4	18
22	1	0	0	0	1	1	8	1	1	2	0	***	***	***	***	***	***	***	***	***	***	***	***	***
23	***	***	***	***	***	9	3	7	0	0	0	-2	-1	-3	-3	-1	-2	-1	4	6	5	***	***	***
24	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
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28	5	8	4	1	0	0	***	***	0	1	-4	-6	-7	-6	-6	-6	-6	-3	7	10	20	8	13	6
29	8	13	5	8	9	10	12	9	9	17	16	3	4	10	8	13	17	12	12	13	11	9	8	6
30	16	21	13	16	12	5	7	7	6	1	-1	-2	-3	-3	-3	-3	-3	-2	10	29	16	10	8	***
31	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***

